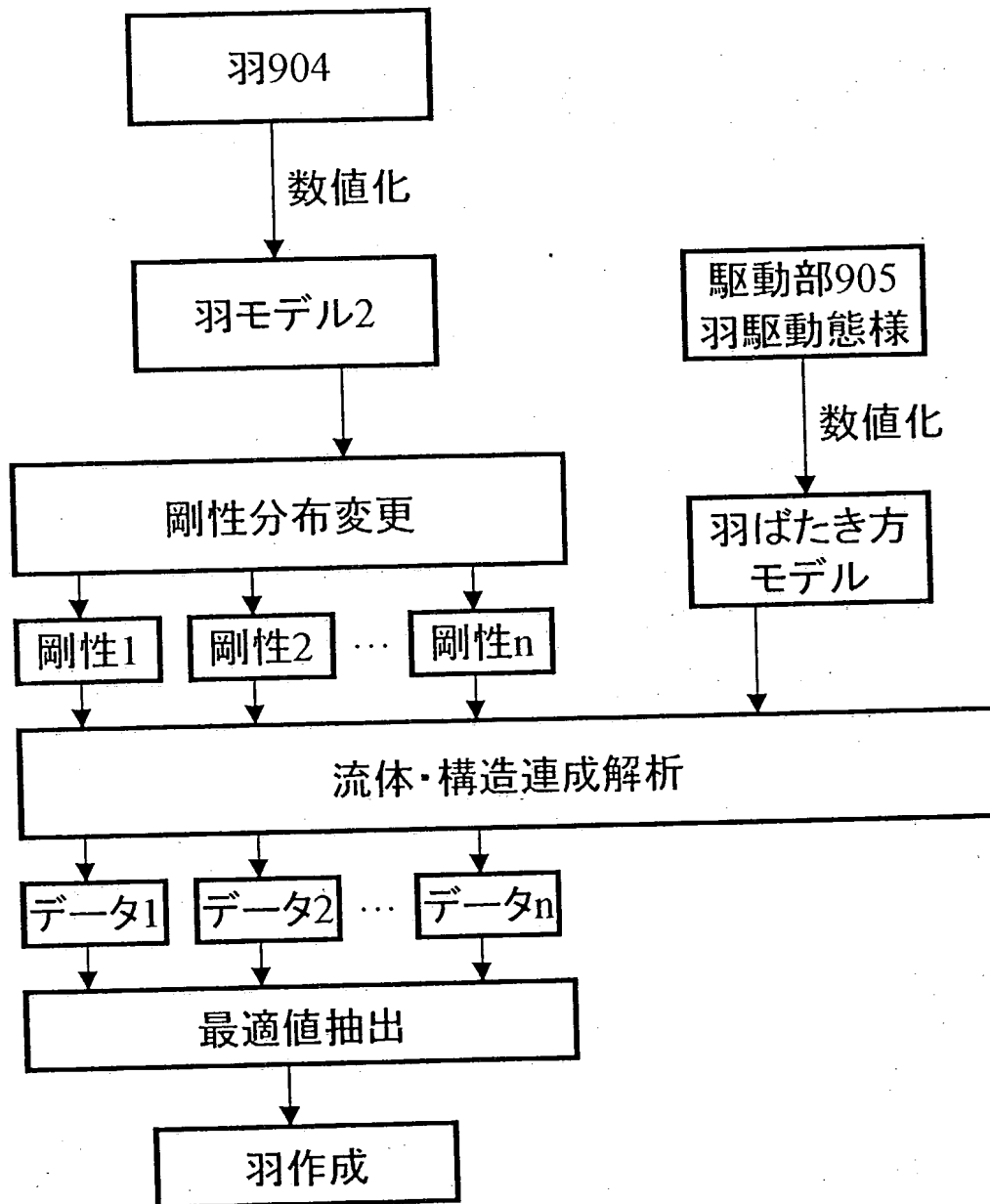
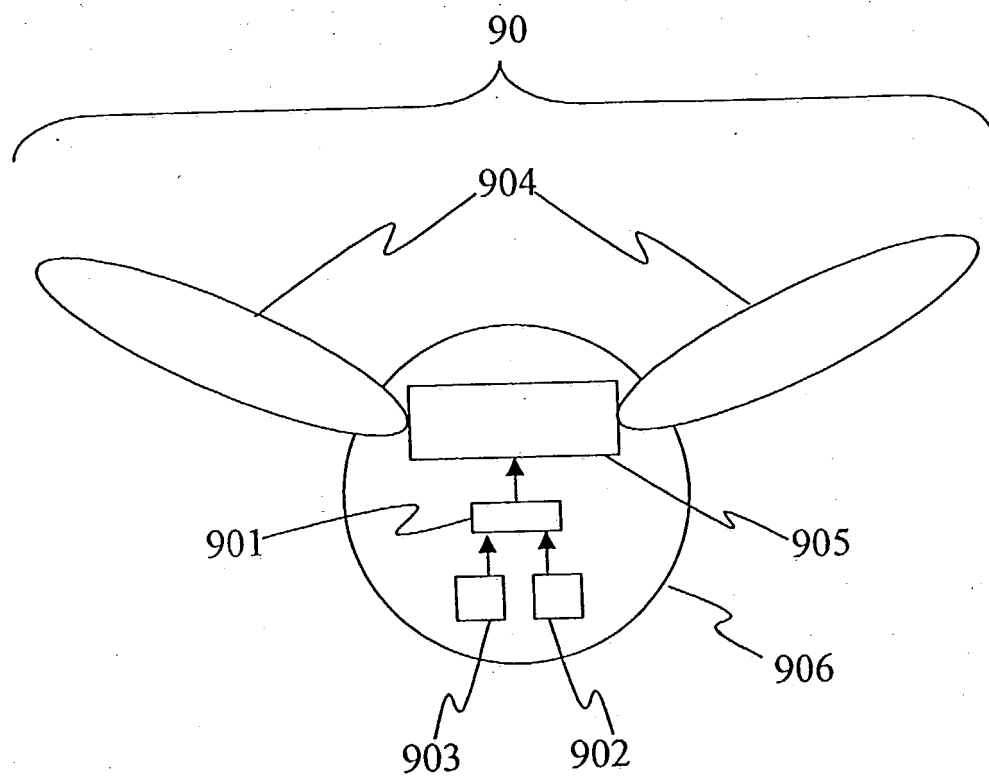


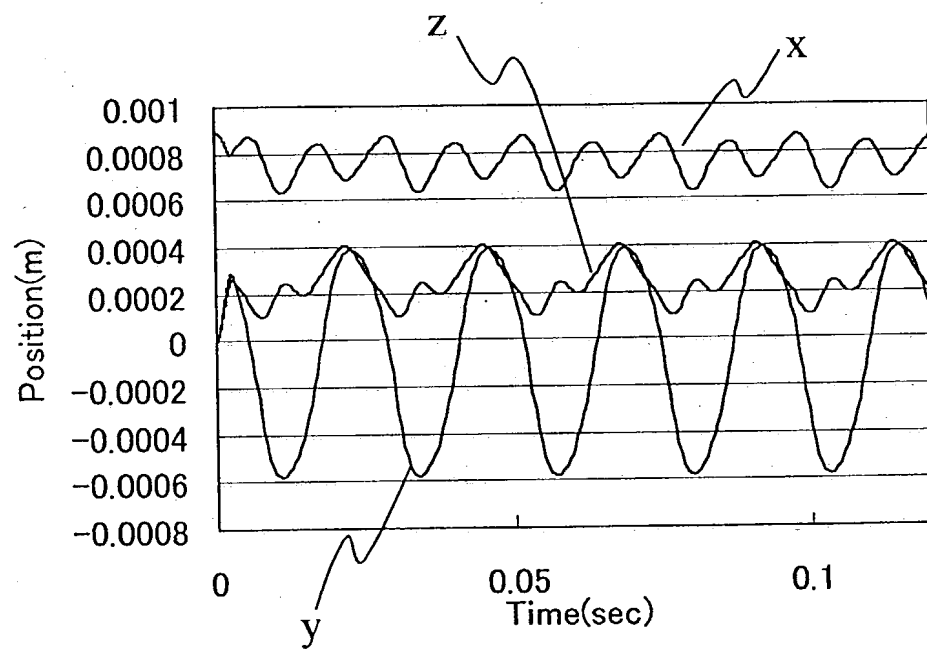
02J021XJ  
03R00338/US/END  
+021027 903154  
( 担当: 加藤 3/5 )



【図1】

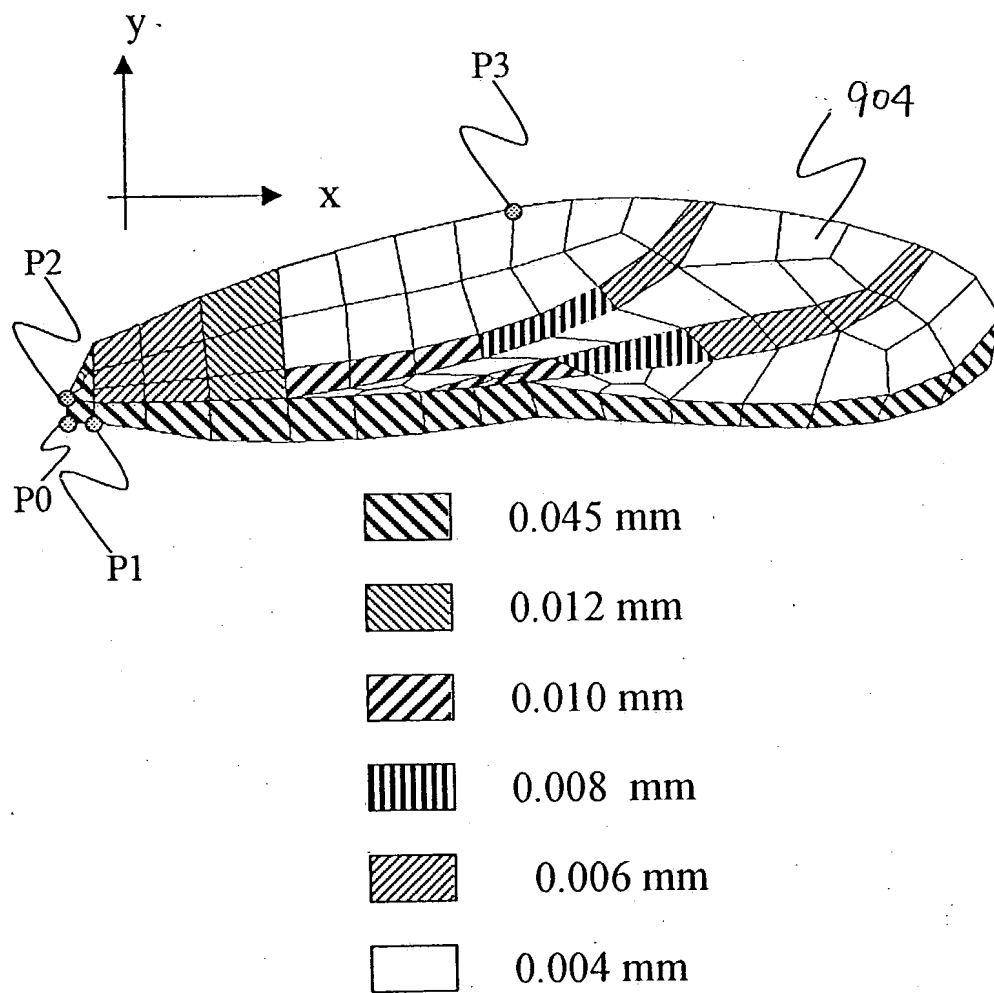


【図2】



【図3】





【図5】

~~图8~~

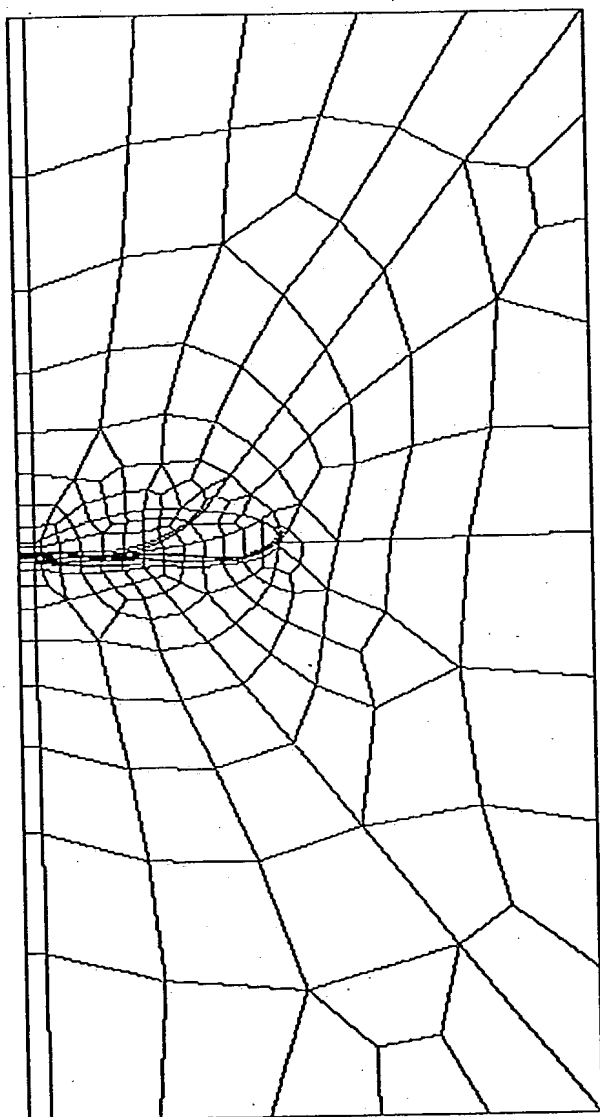


图 6

~~图 38~~

~~图 45~~

~~图 21~~

【图9】

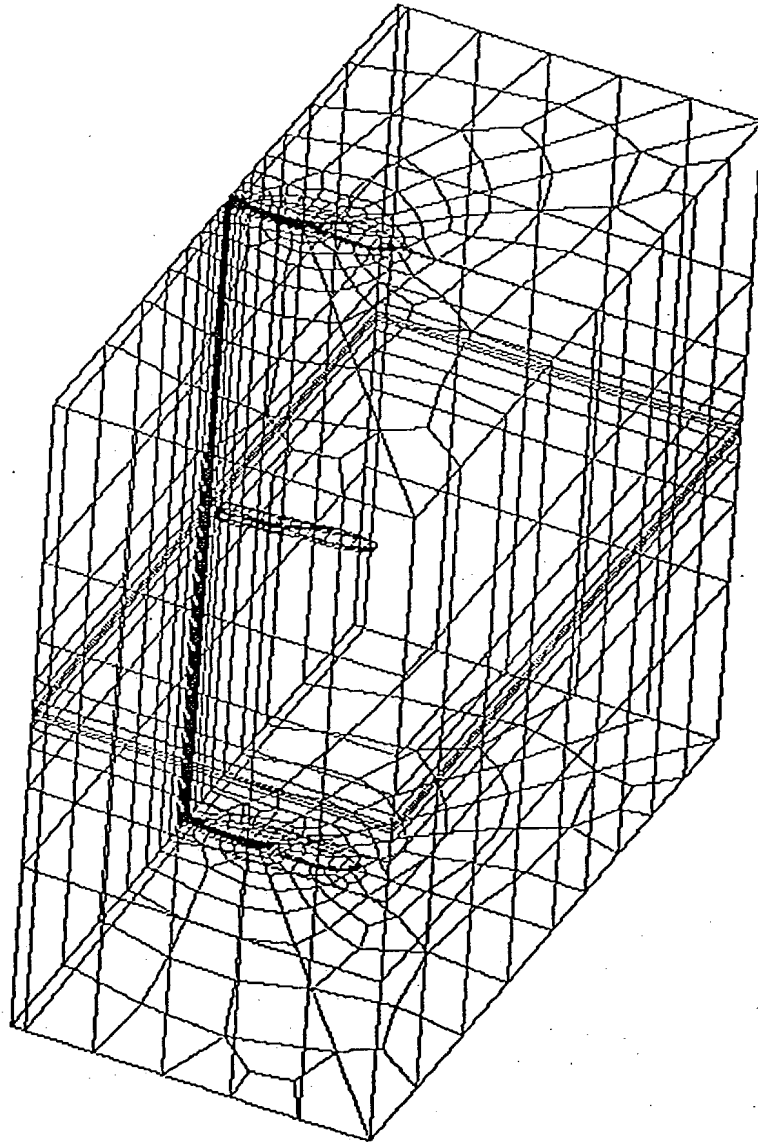
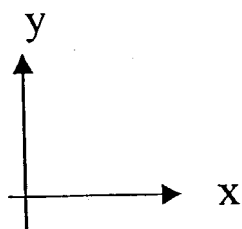
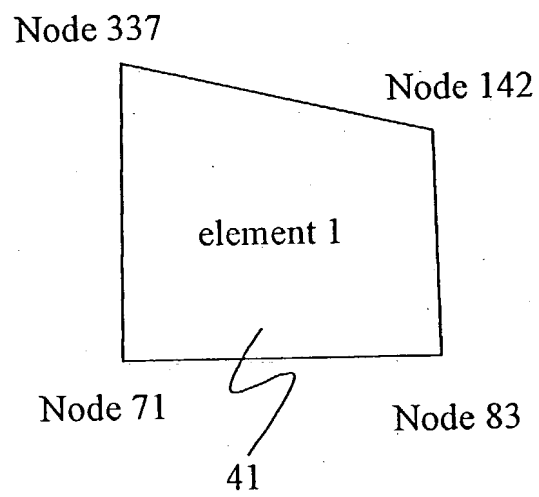
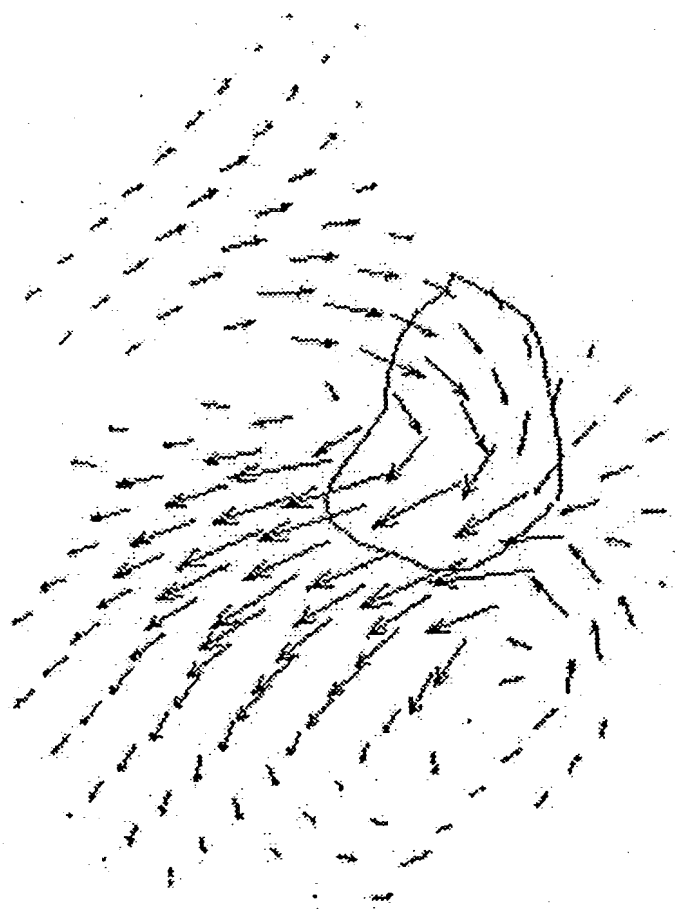


图7  
~~图39~~  
~~图46~~  
~~图22~~

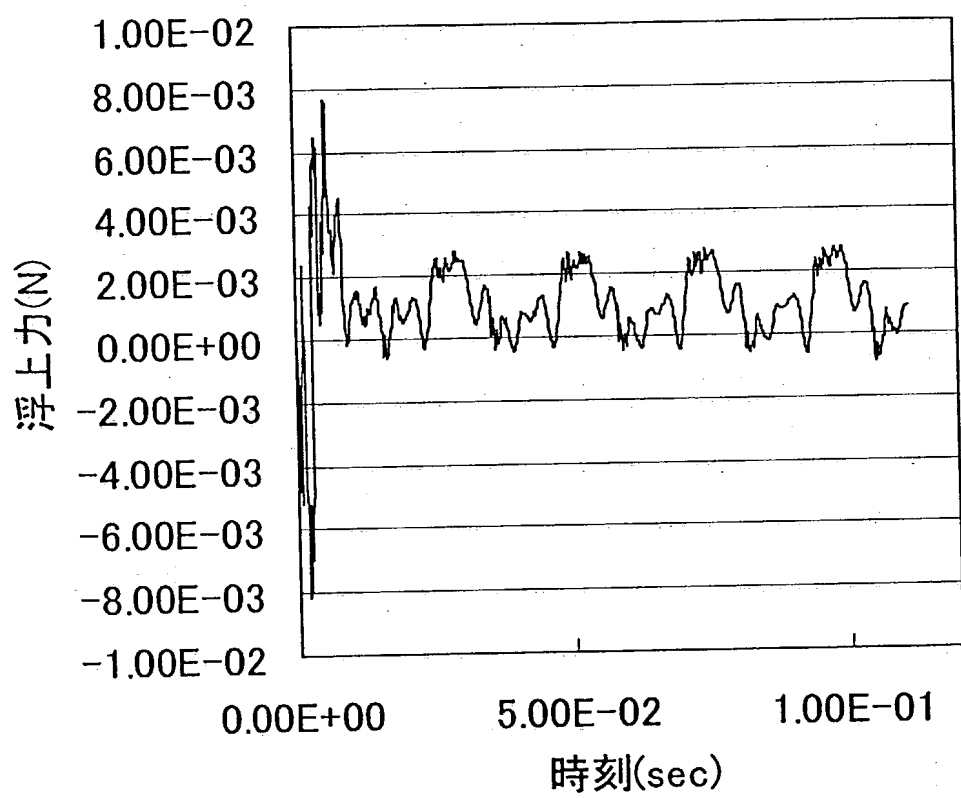


【图8】

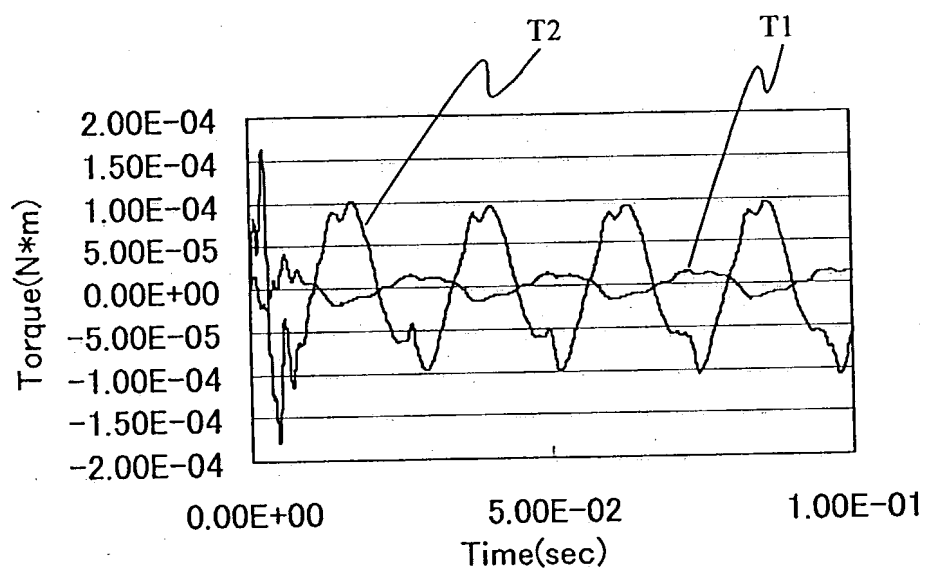




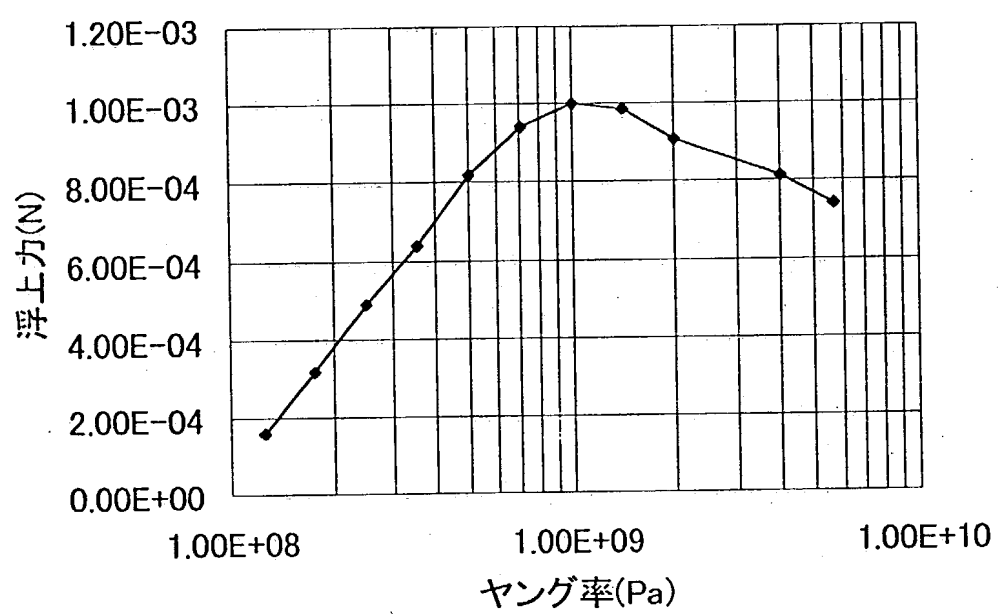
【图9】



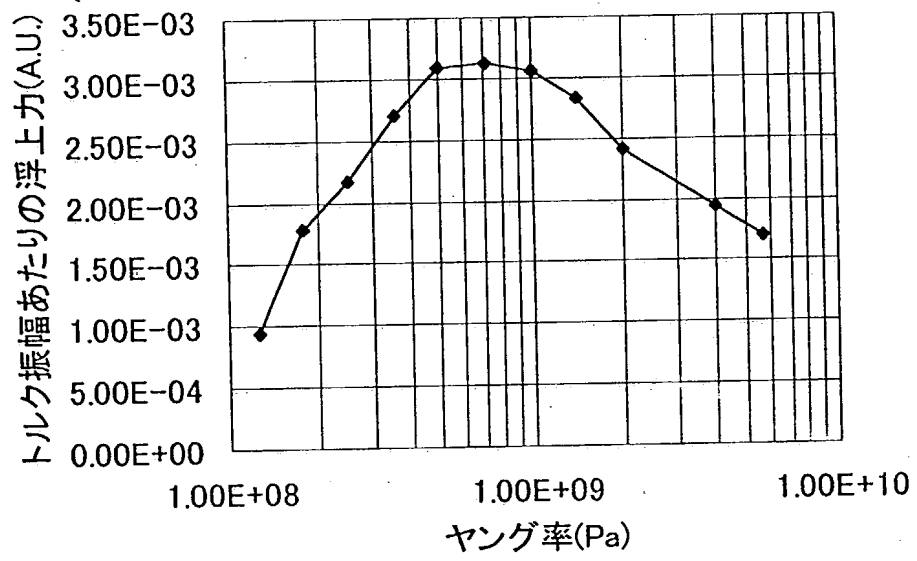
【図10】



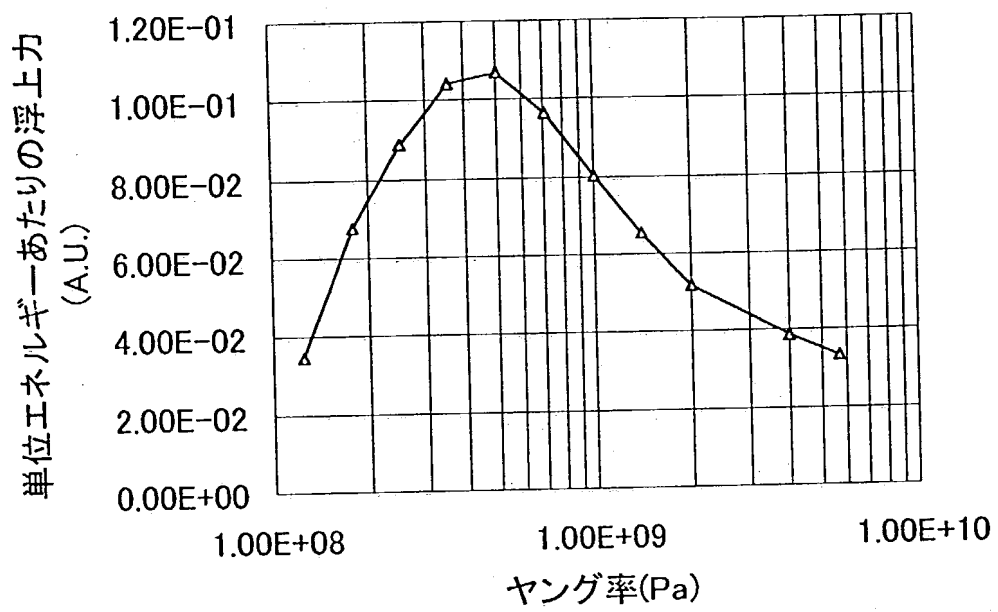
【図11】



【図12】



【図13】



【図14】

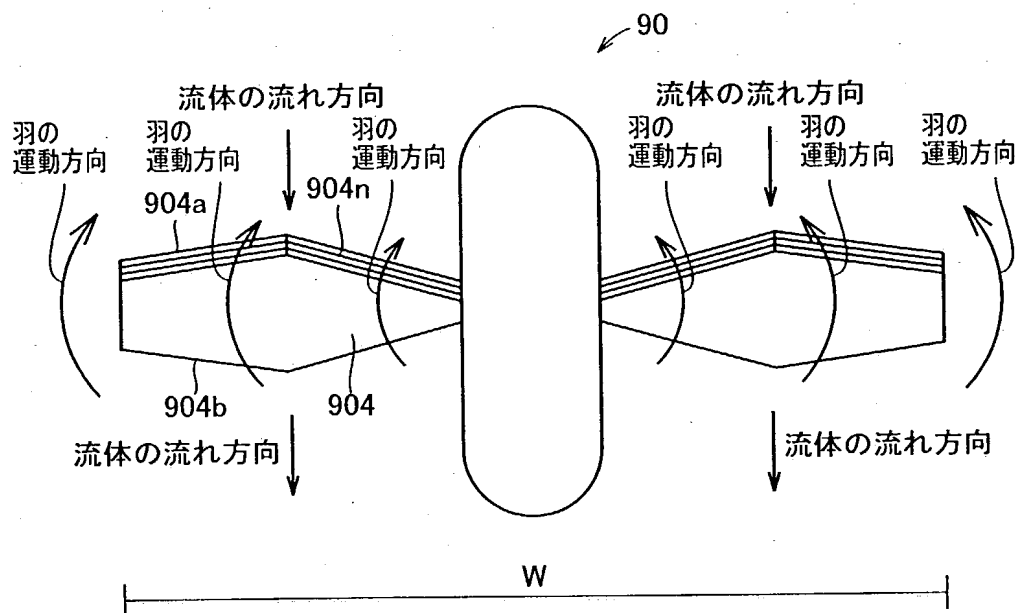


図15

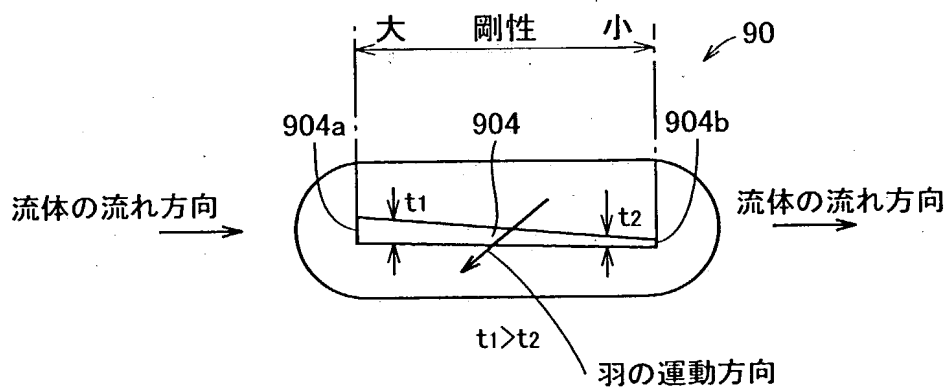


図16

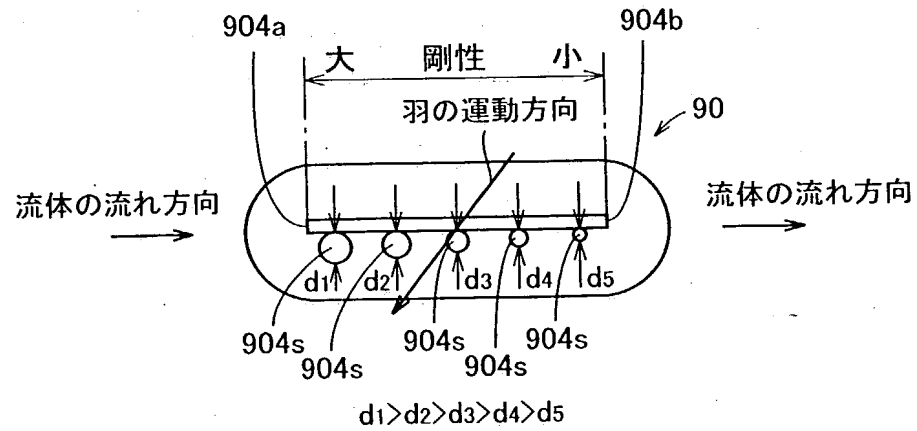


図17

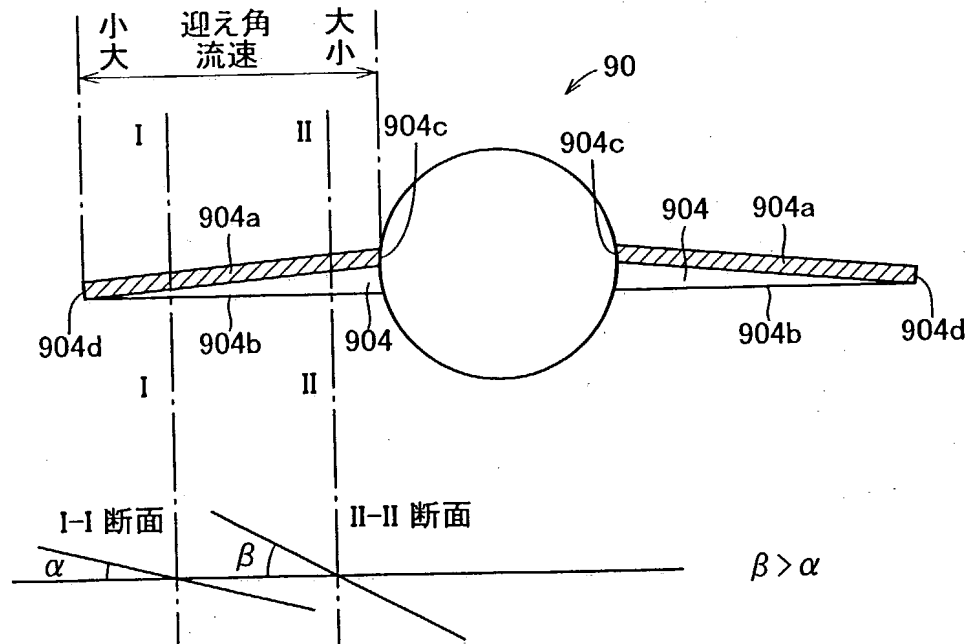


図18



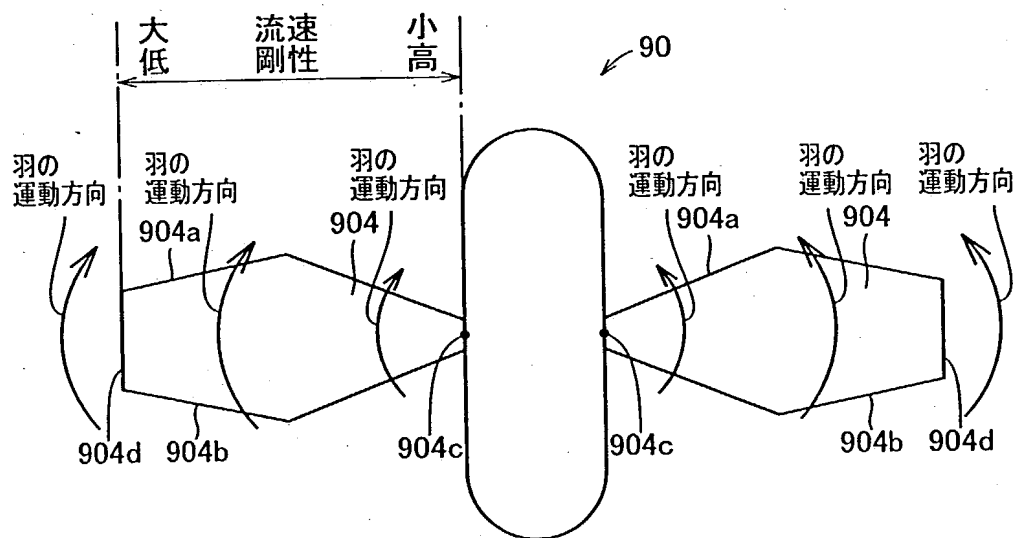


図19

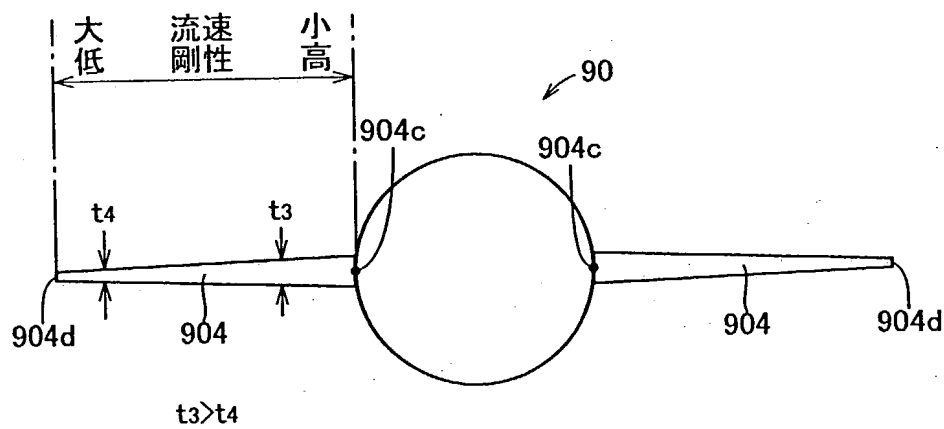


図20

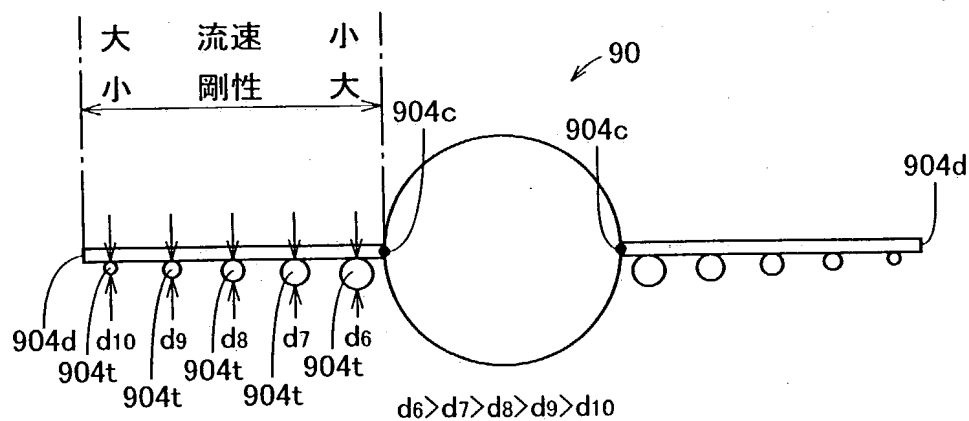


图21

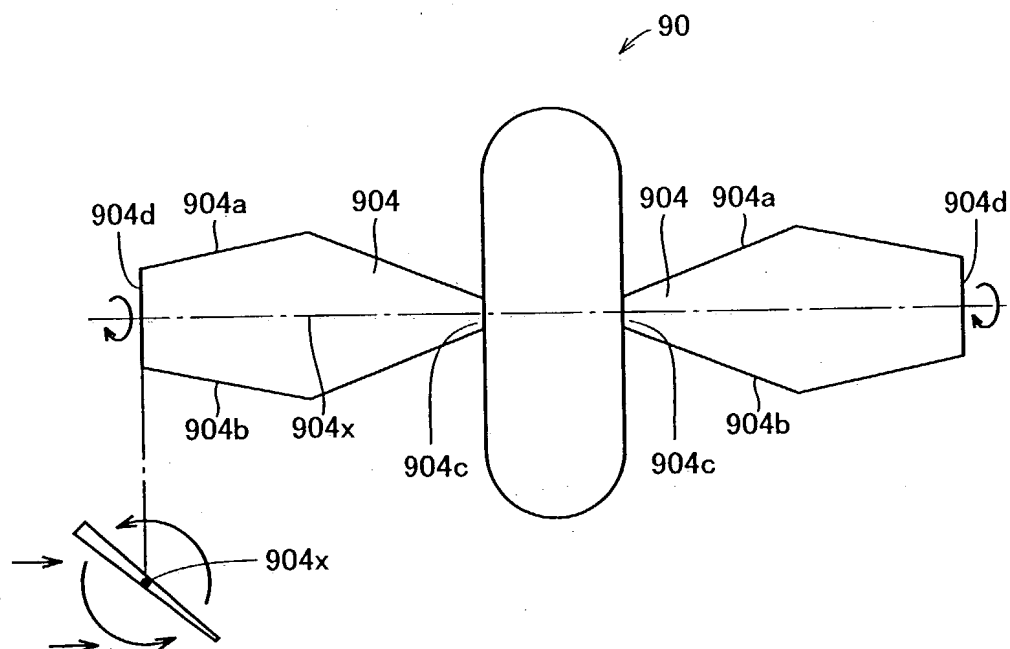


图22

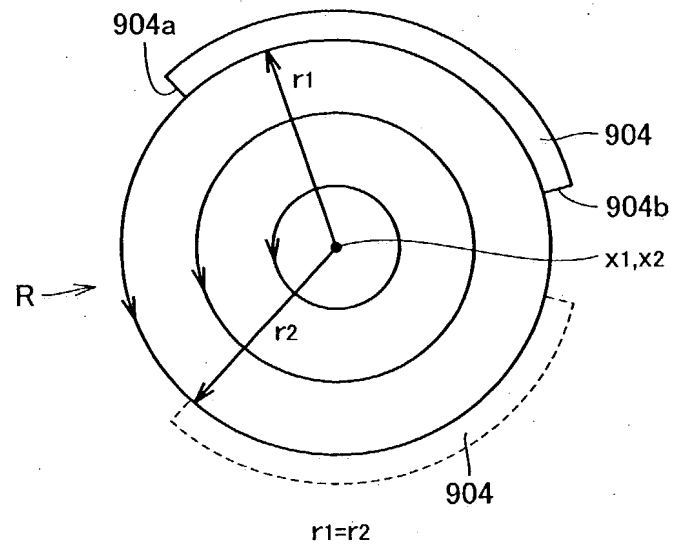


図23

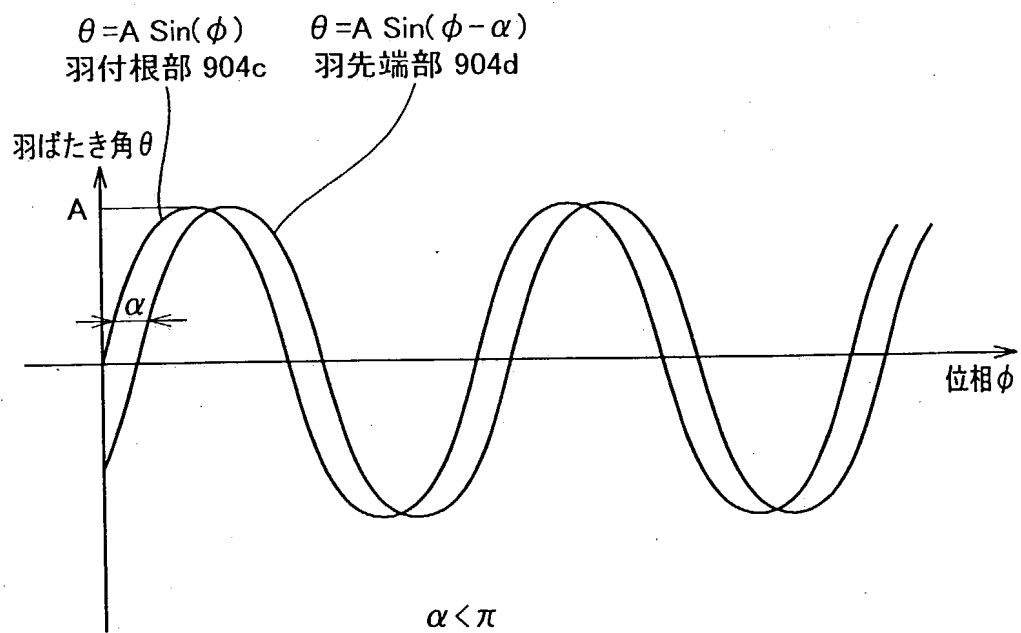


図24

~~01303712~~  
~~(1011448)~~  
~~担当 加藤~~

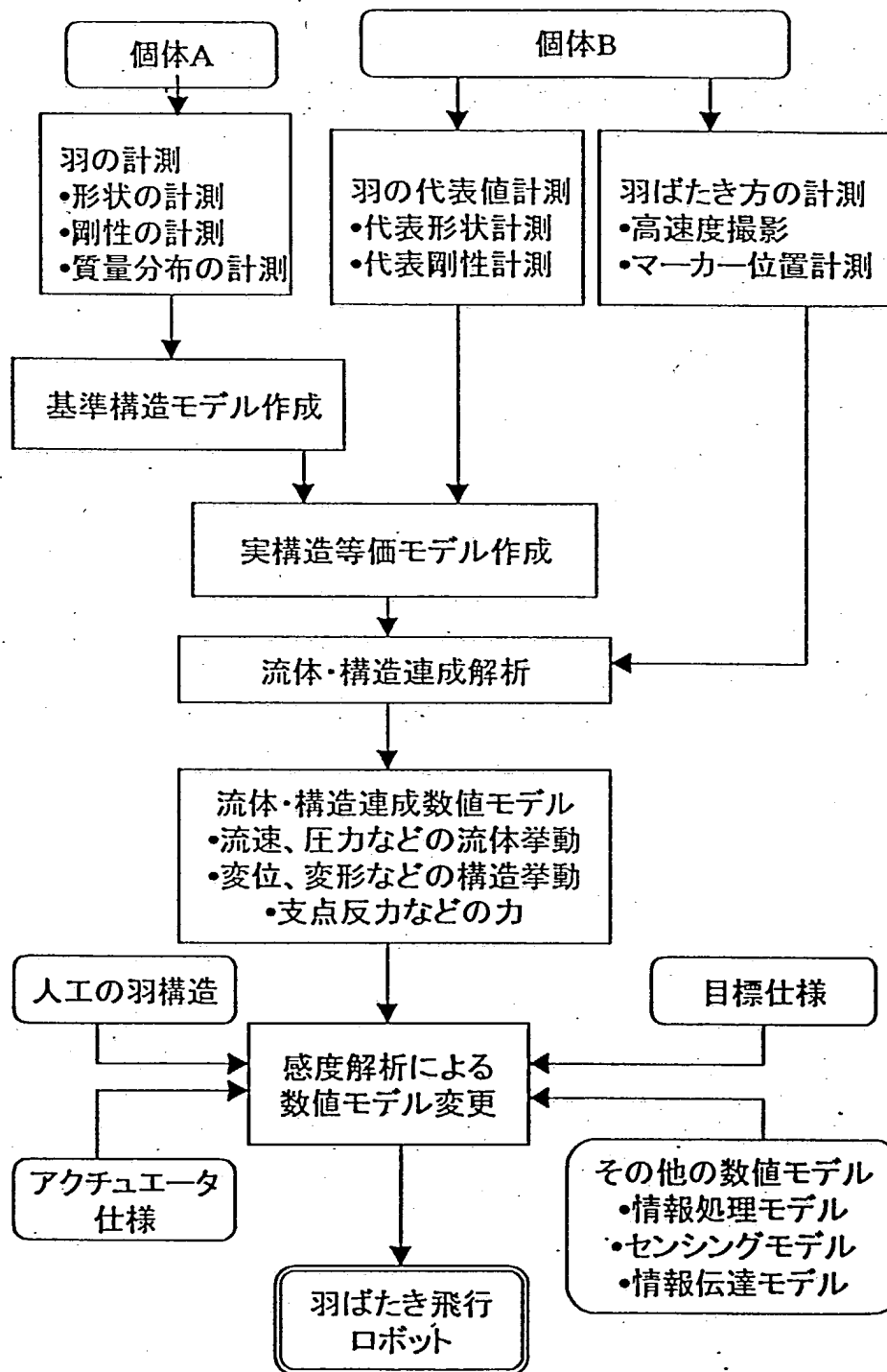


図25  
図1

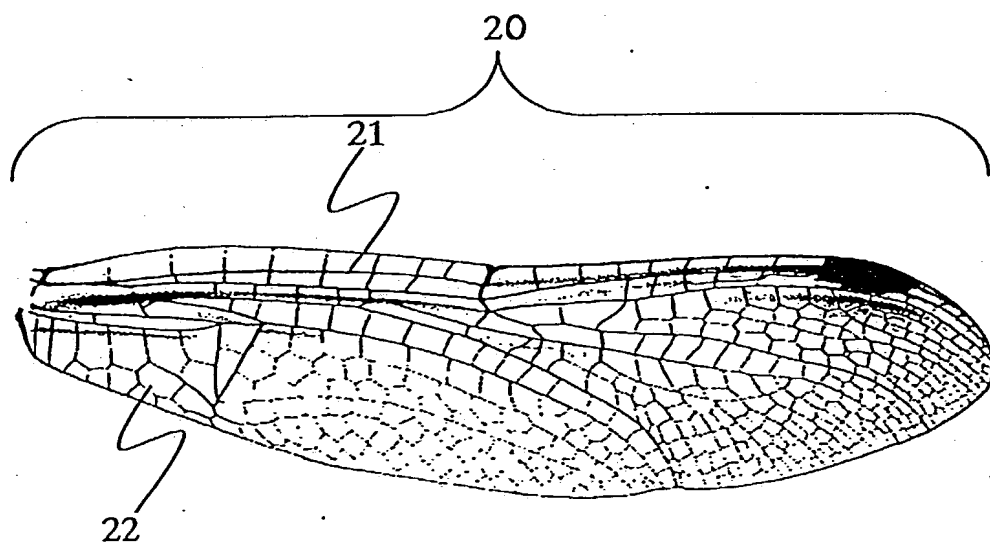
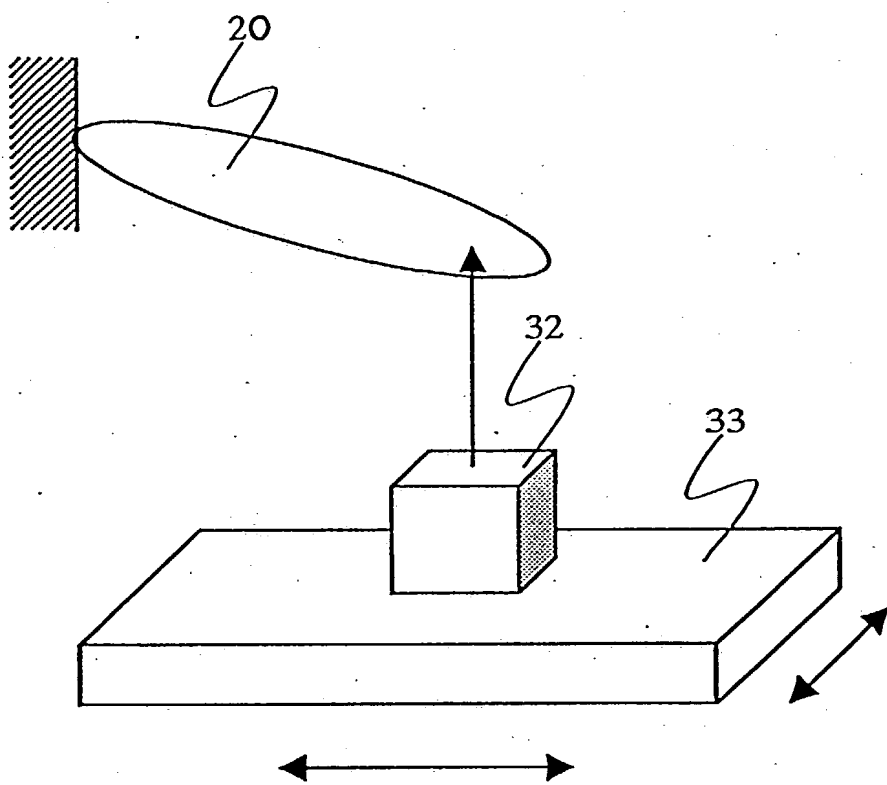


图26

~~图2~~



27  
~~3~~

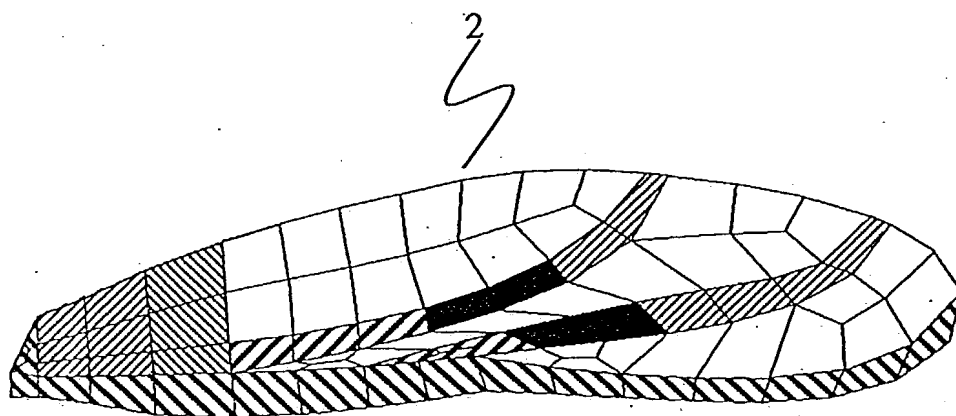
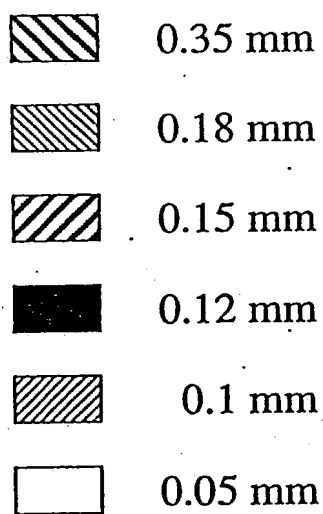


图18

图4



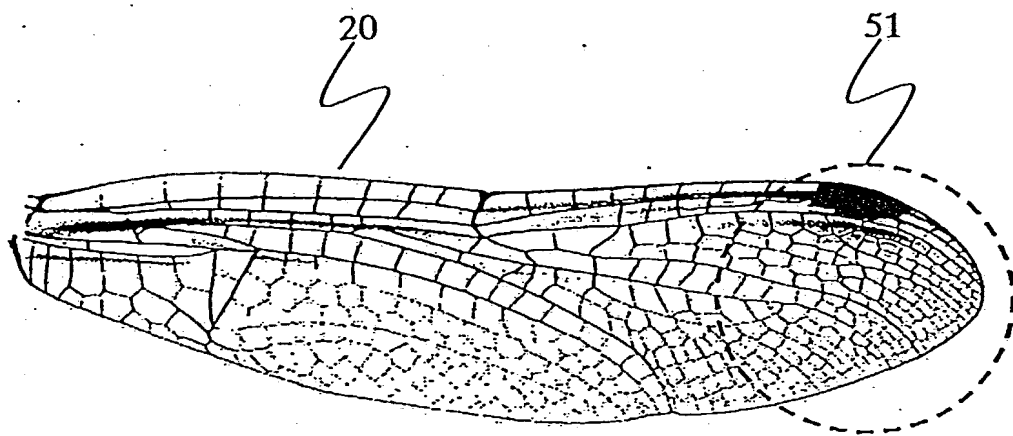


图29  
图5



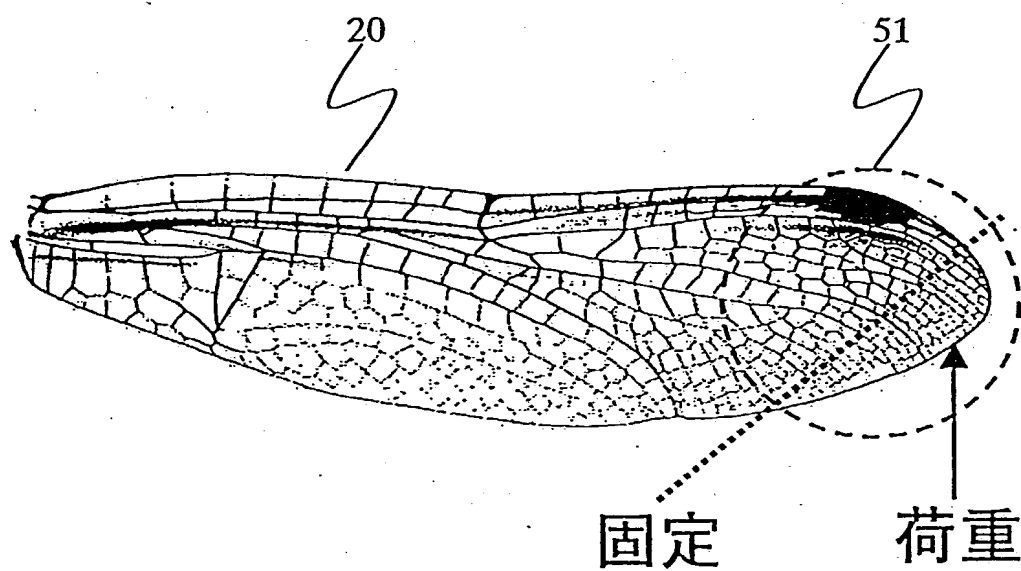


图30  
图6

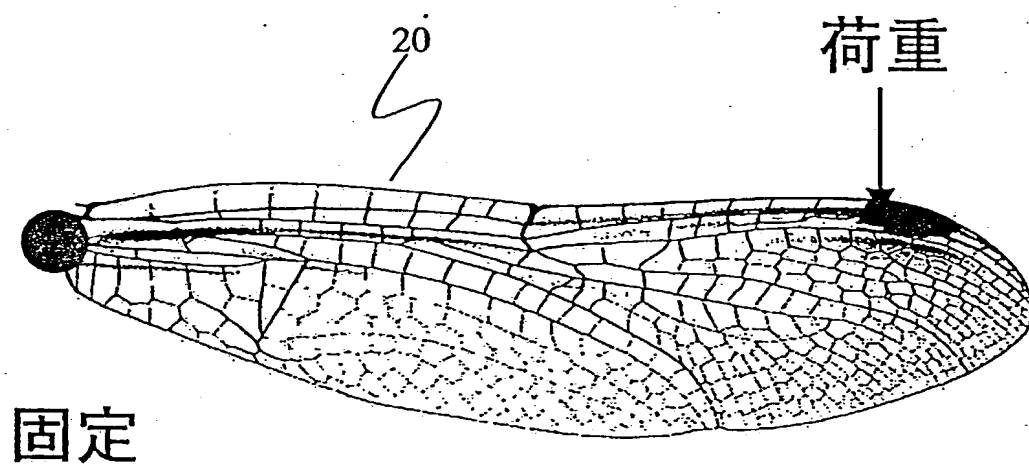


图31  
图7

~~图11~~

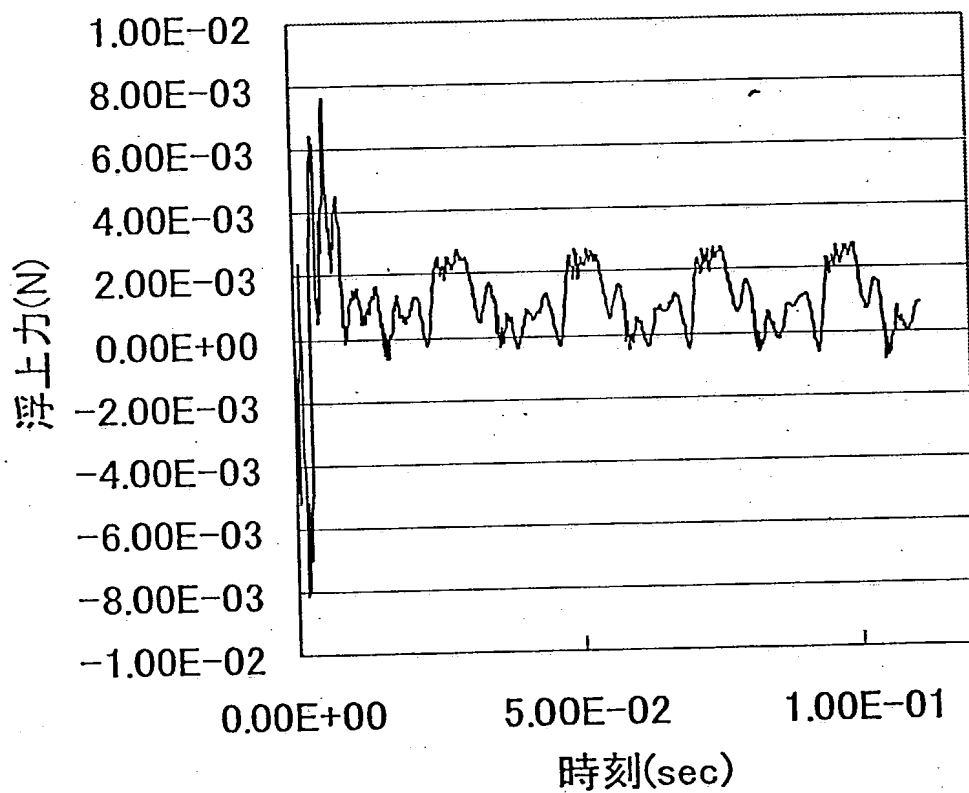
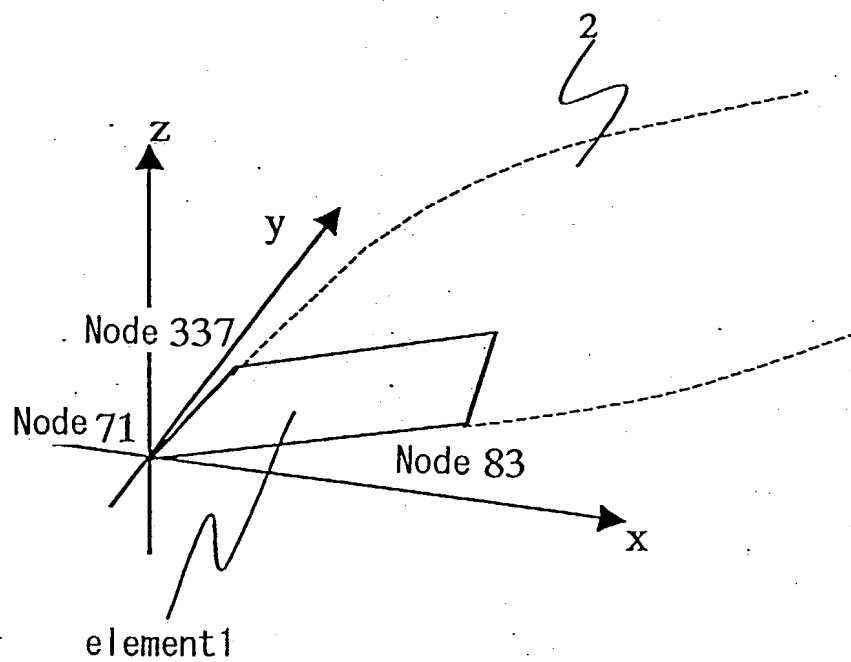


图32

~~图40~~

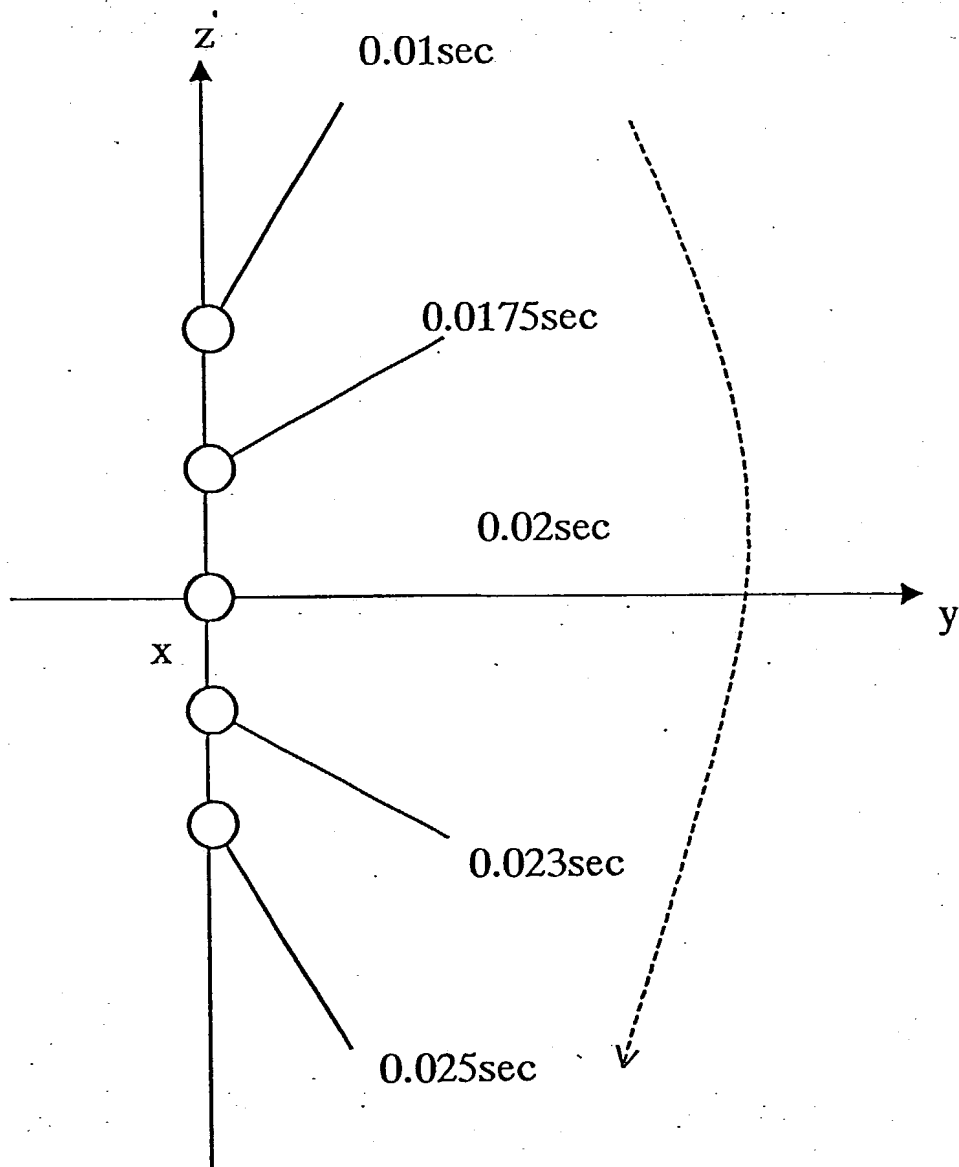
~~图47~~

~~图23~~



~~图 40~~

图 33



~~图44~~

图34

~~图17~~

图18

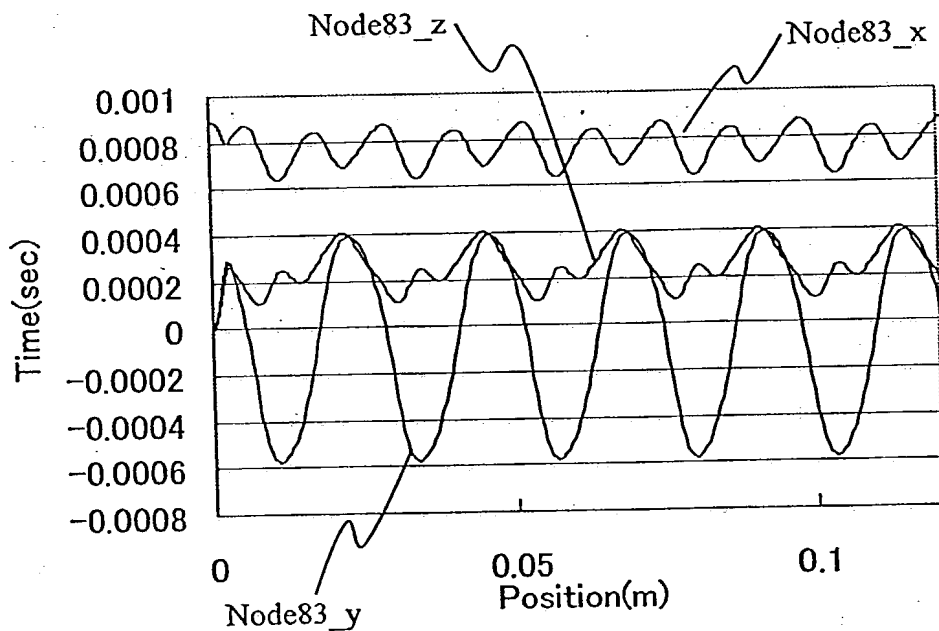


图35

~~图41~~

~~图48~~

~~图24~~

图19

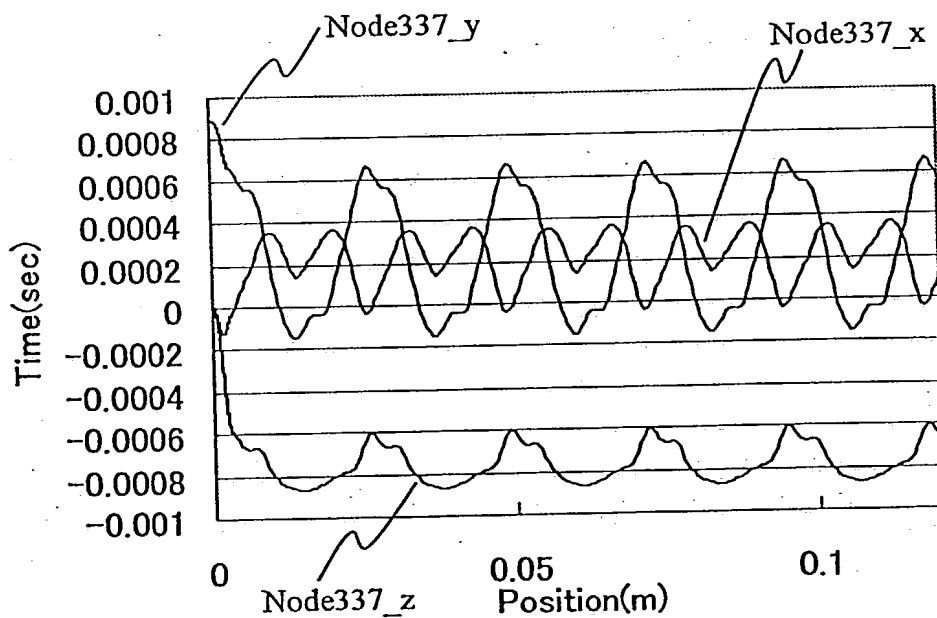


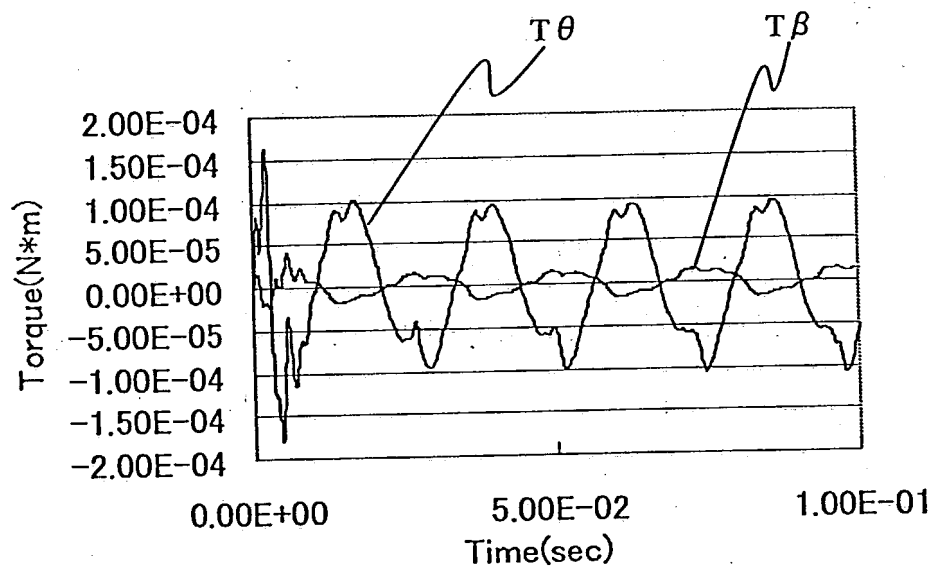
图36

~~图42~~

~~图44~~

~~图25~~

~~图20~~



~~图37~~

~~图43~~

~~图50~~

~~图26~~

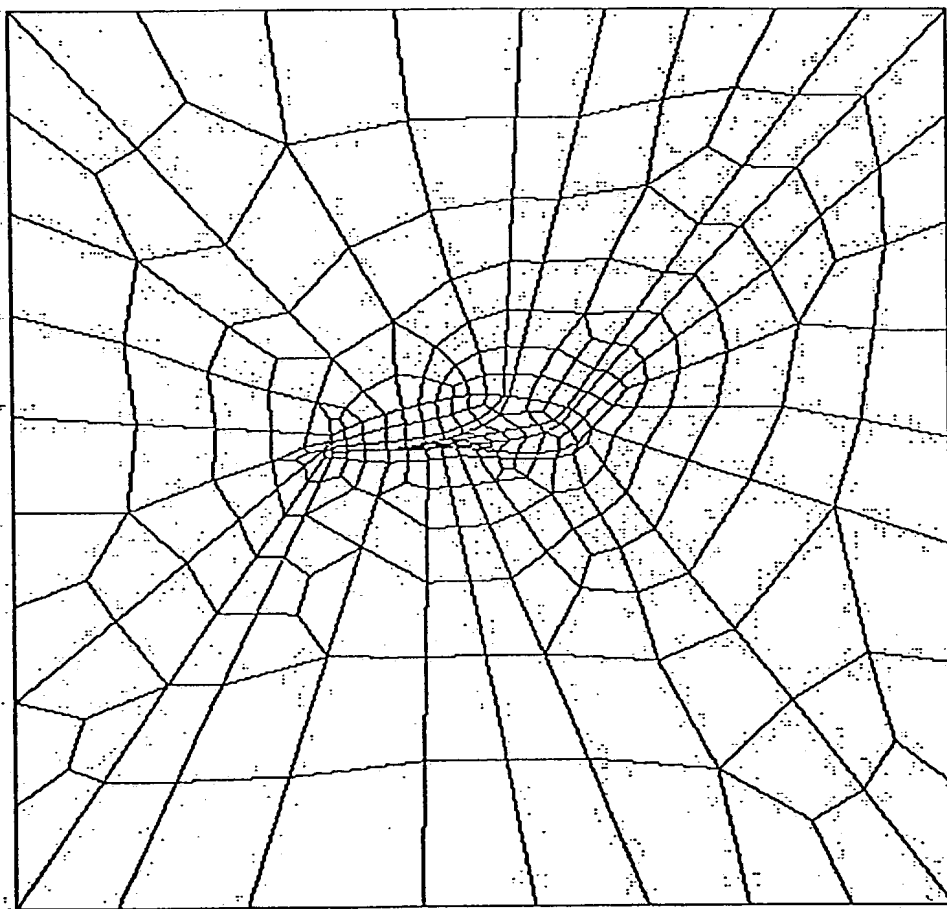


图38  
~~图6~~  
~~图32~~  
~~图8~~



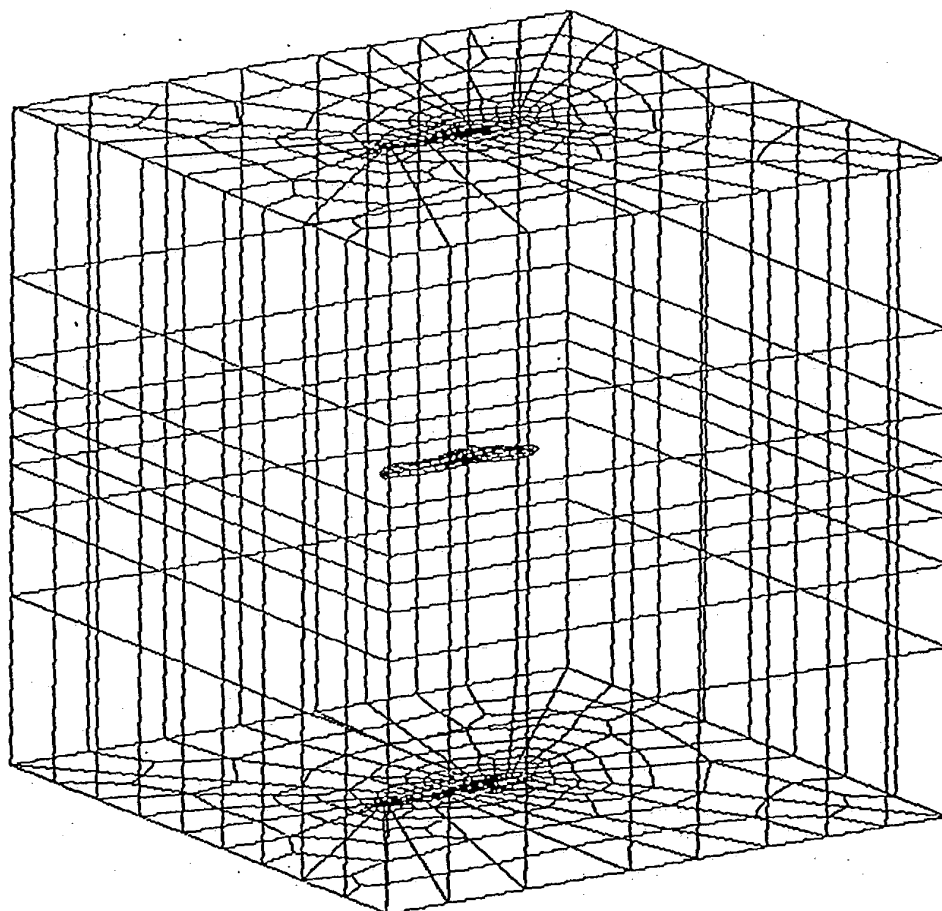


图39  
~~图7~~  
~~图23~~

支点反力の  
垂直成分(N)

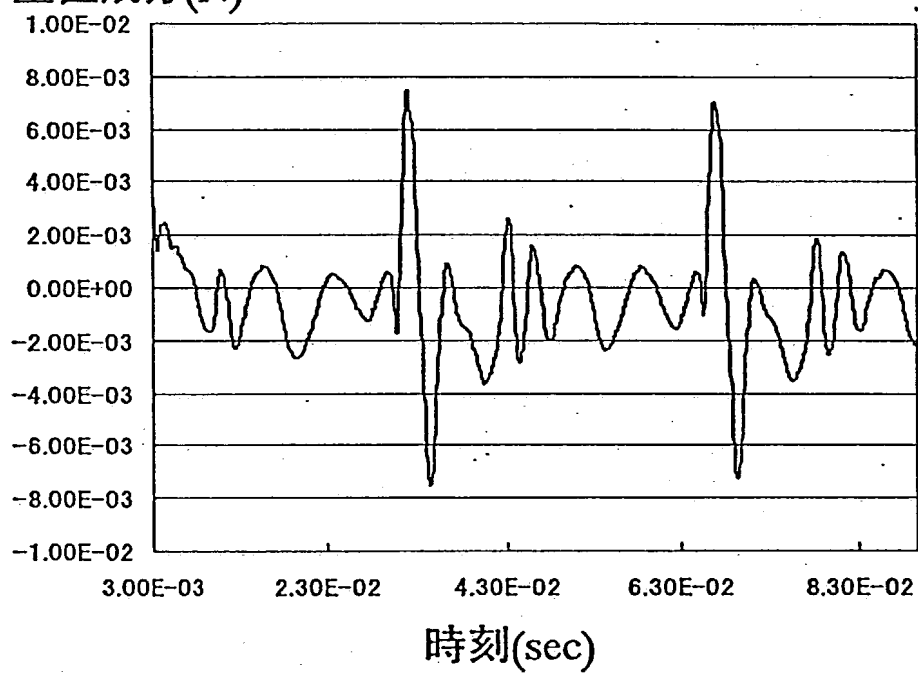


図40

~~図32~~

~~図35~~

~~図4~~

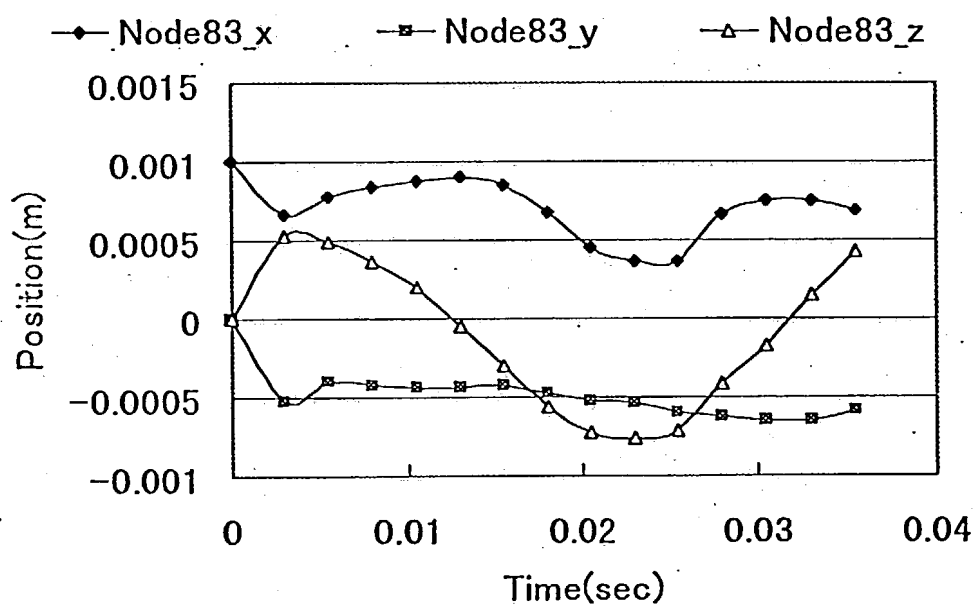
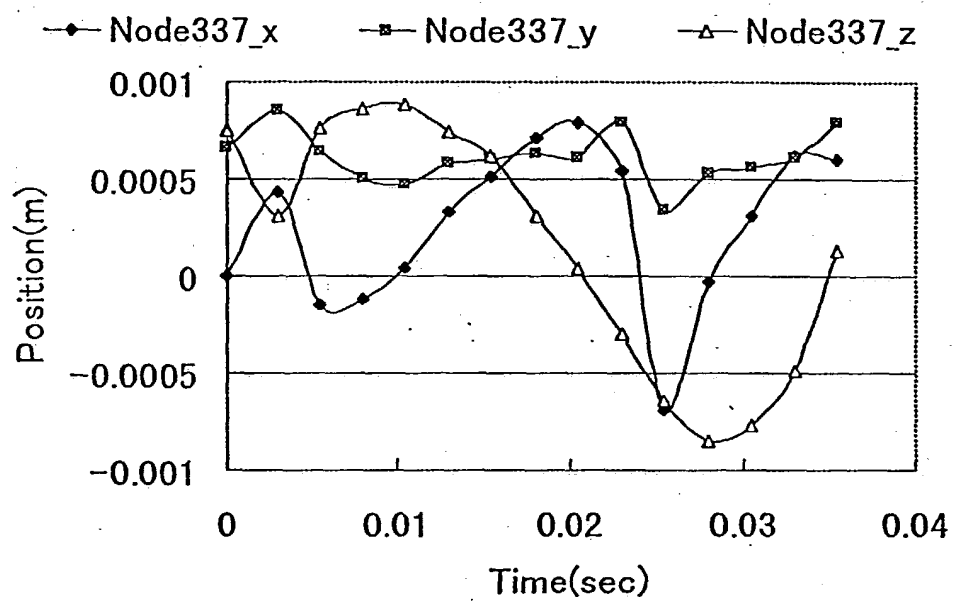


图42

图43

图44



42  
~~36~~  
~~43~~

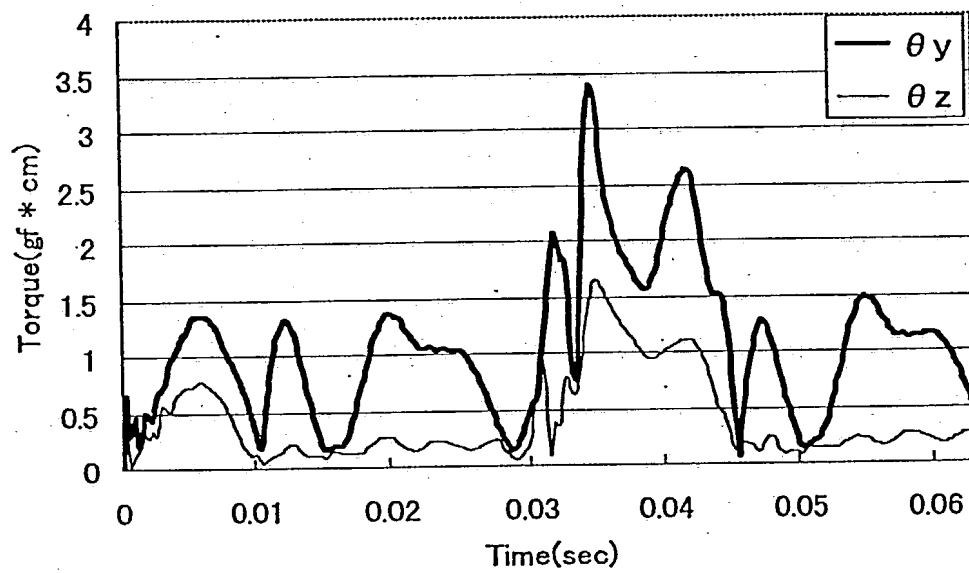


図43  
~~図37~~  
~~図44~~

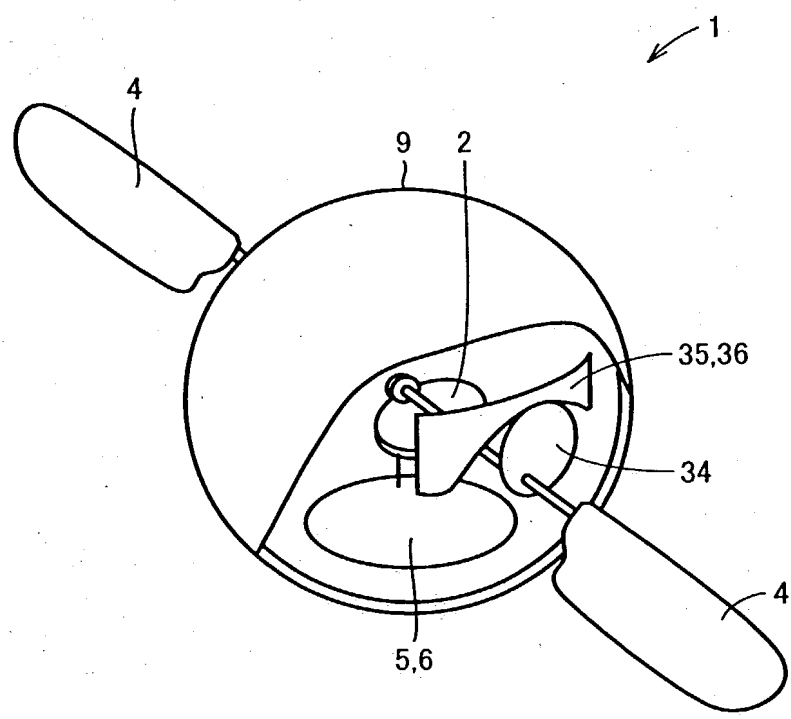
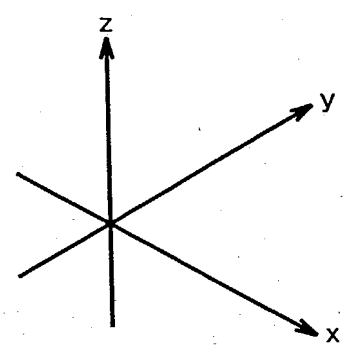
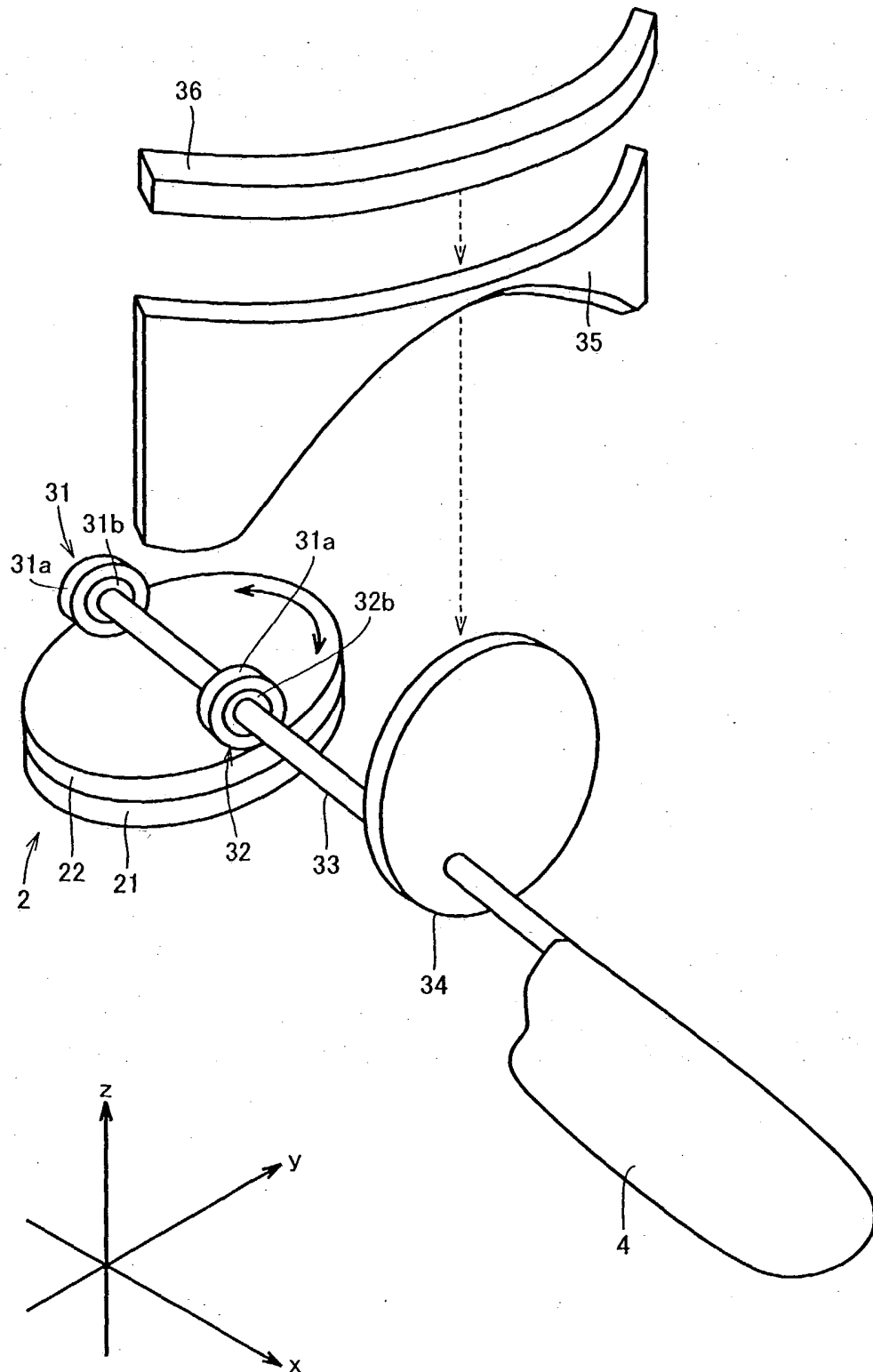


図44  
~~図44~~





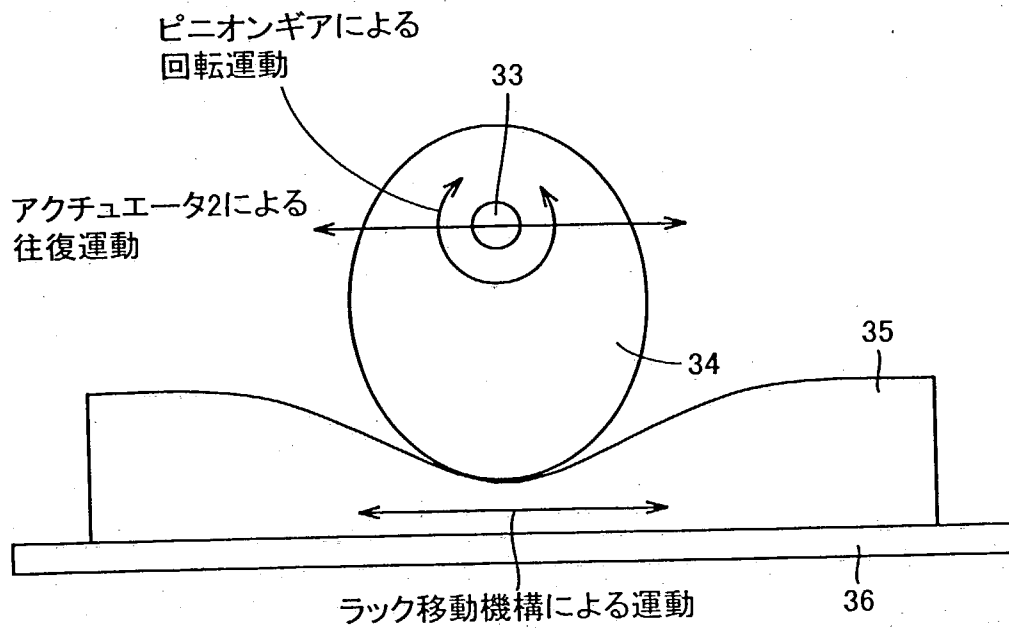


図46  
~~図3~~



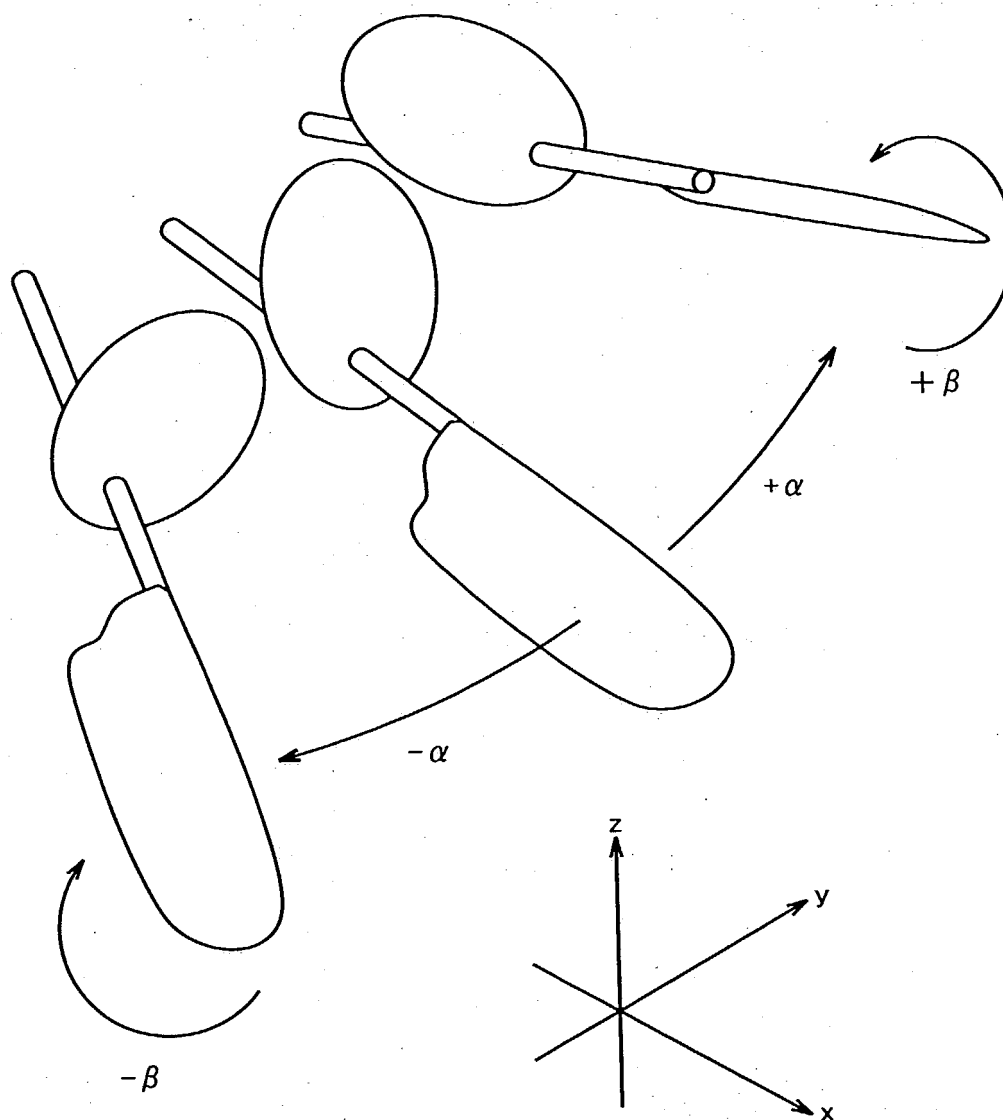


图 47

~~图 47~~

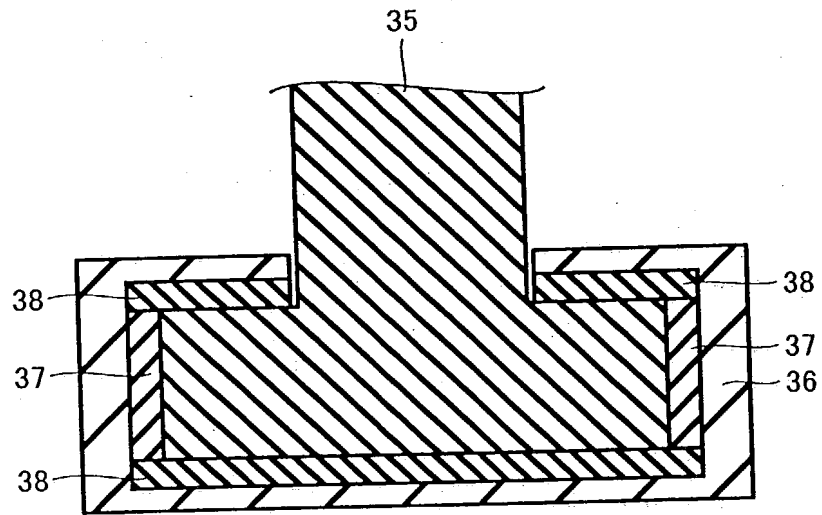
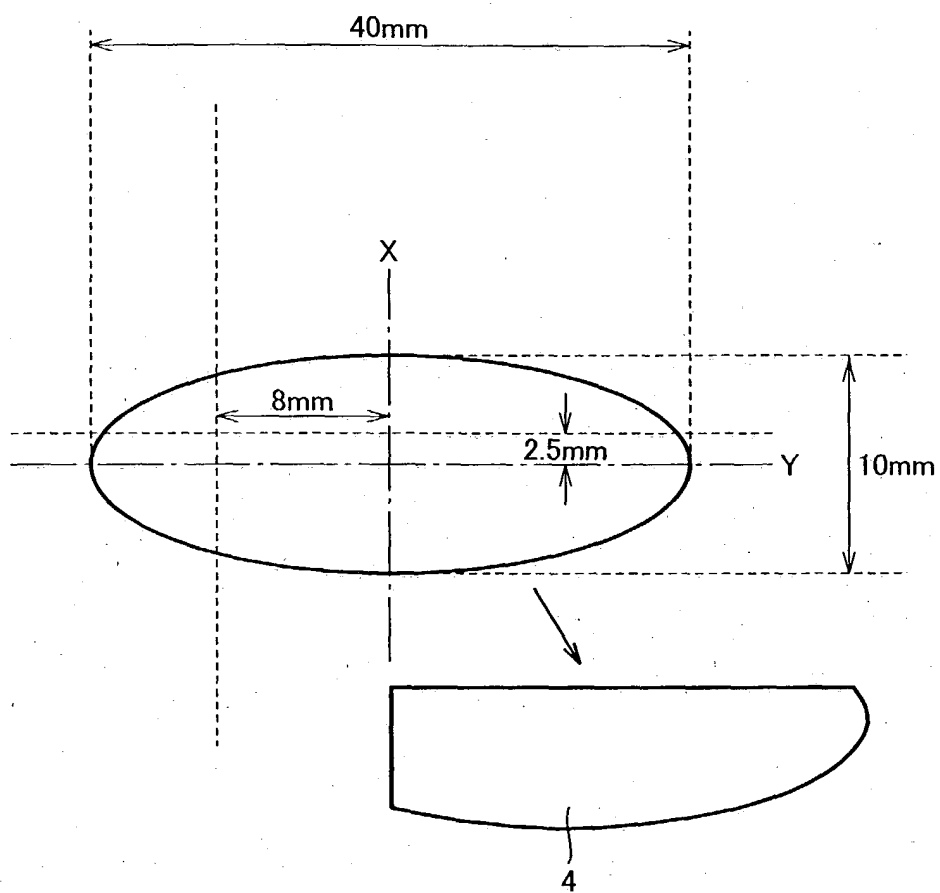


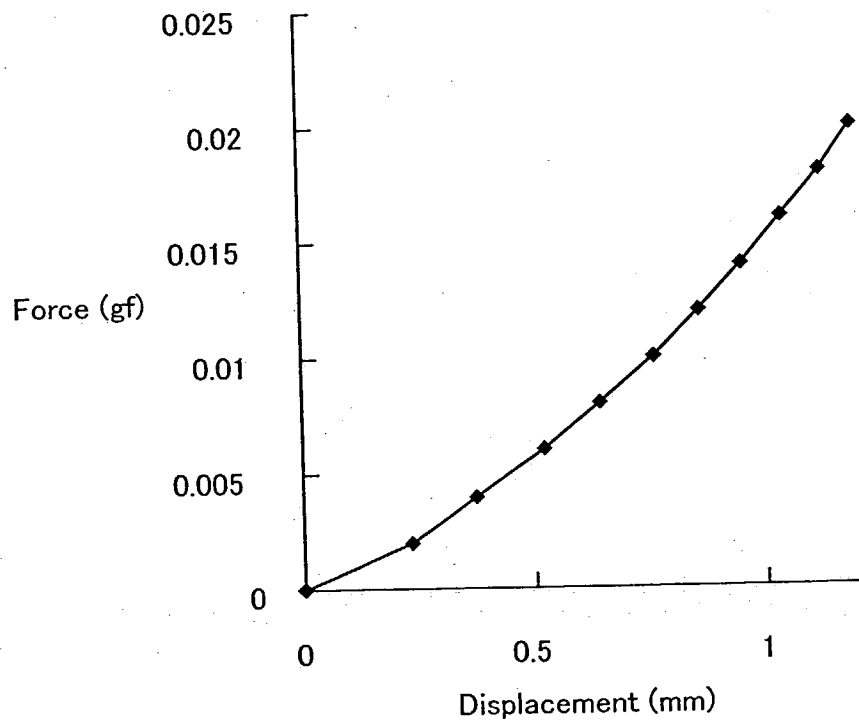
图48

~~图5~~



49

~~46~~



50

7

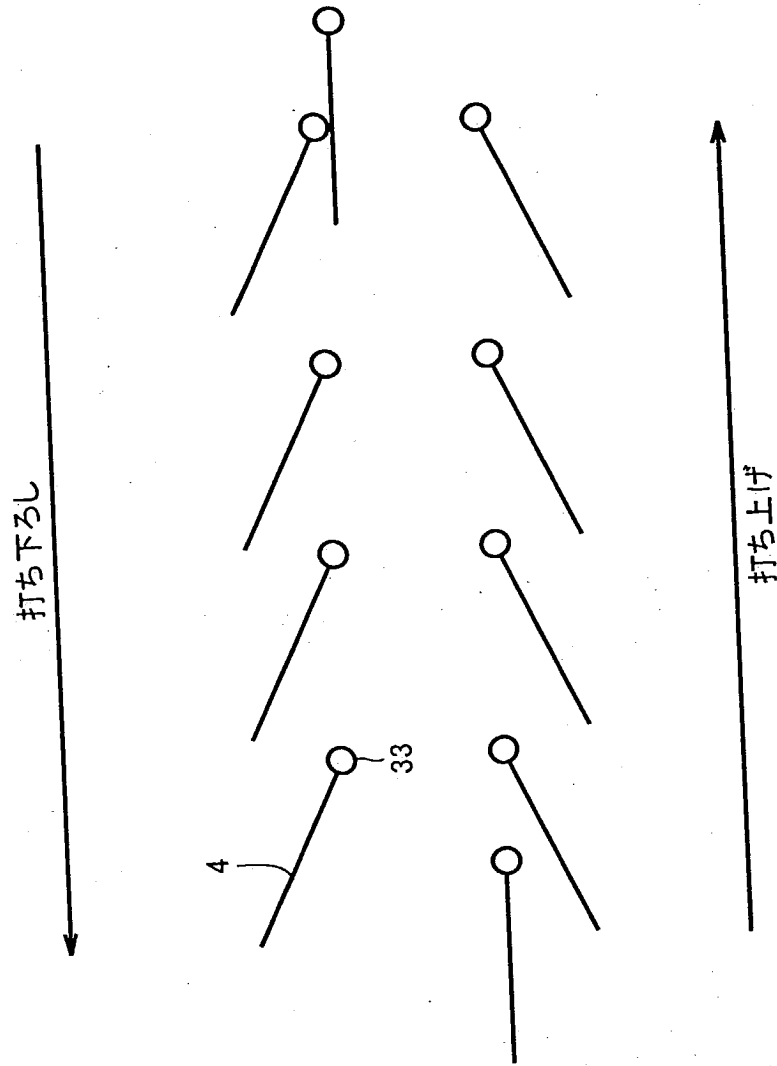
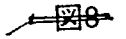


図51



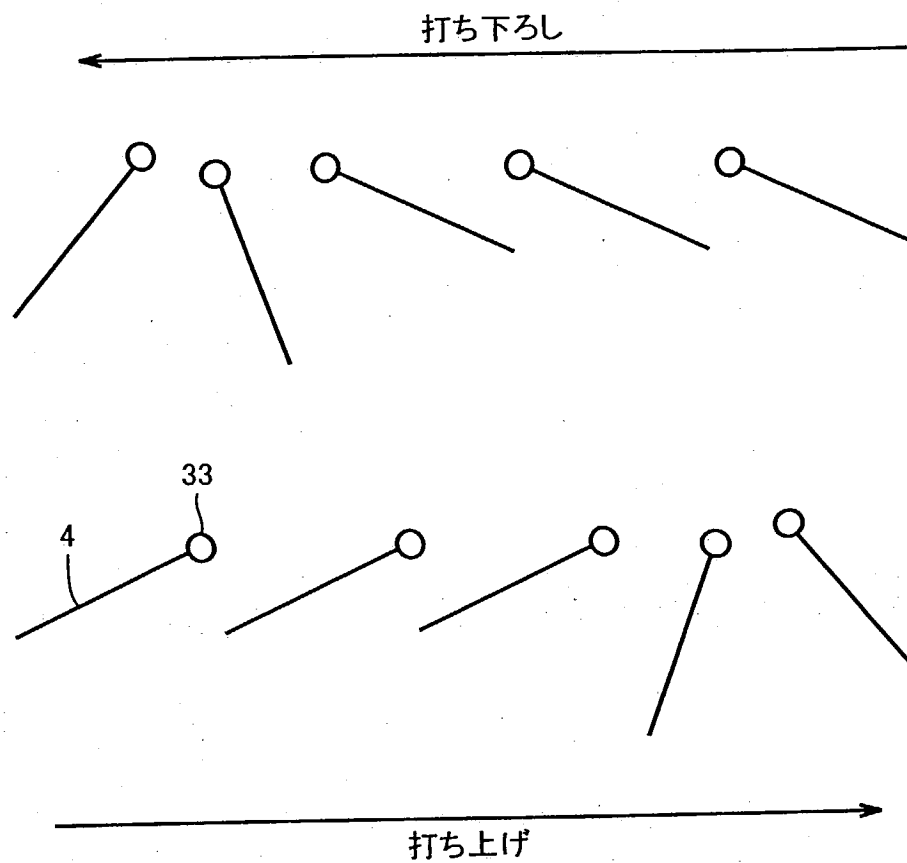


図52

~~図52~~

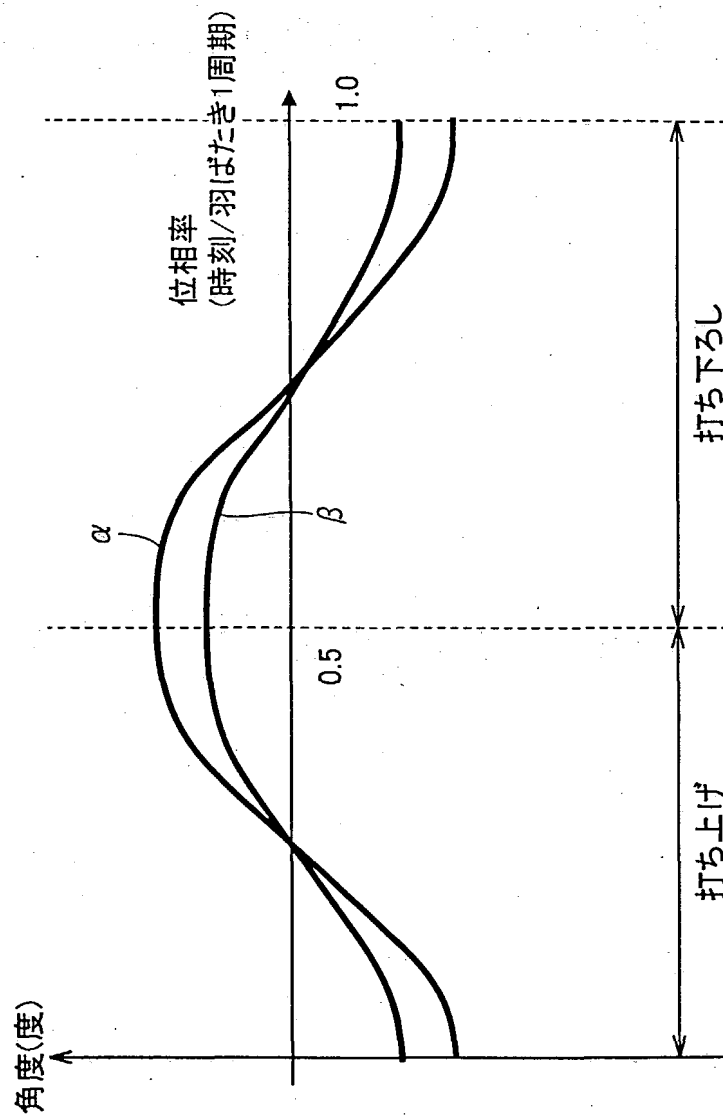


図53

図10

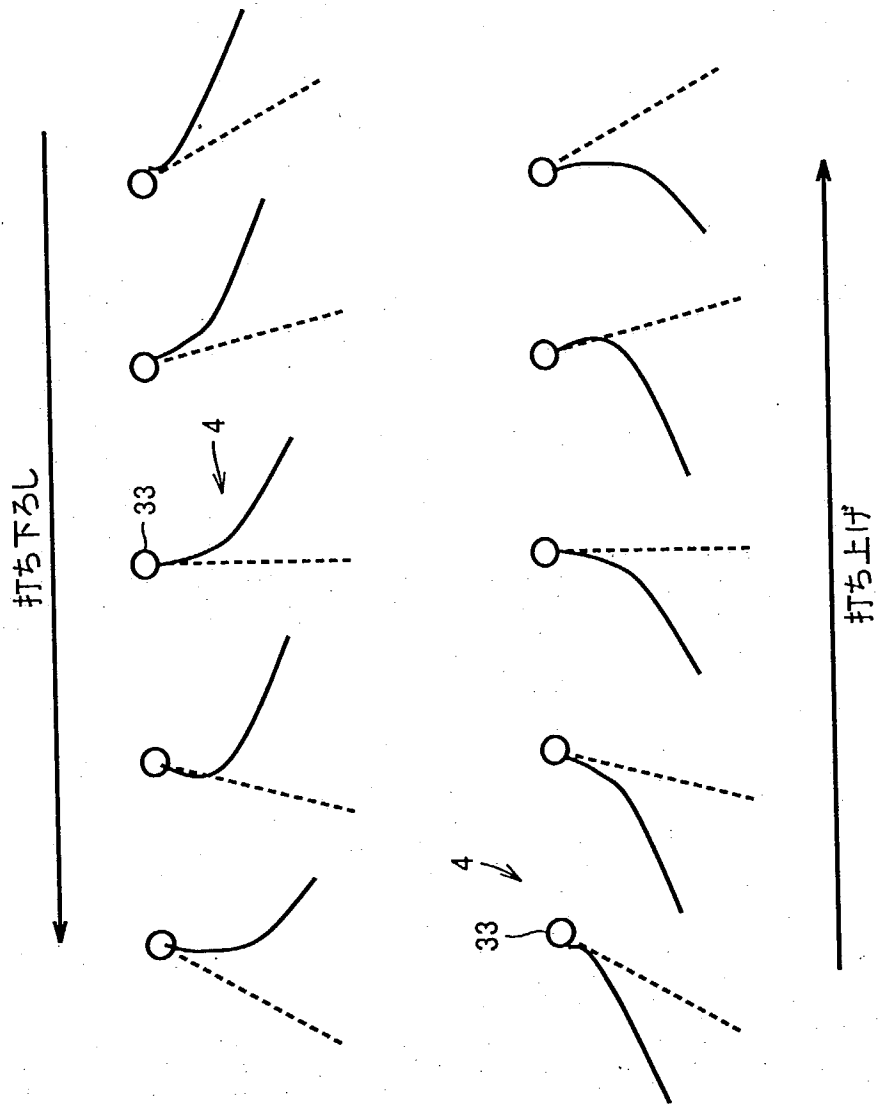


図54  
11



羽の往復運動

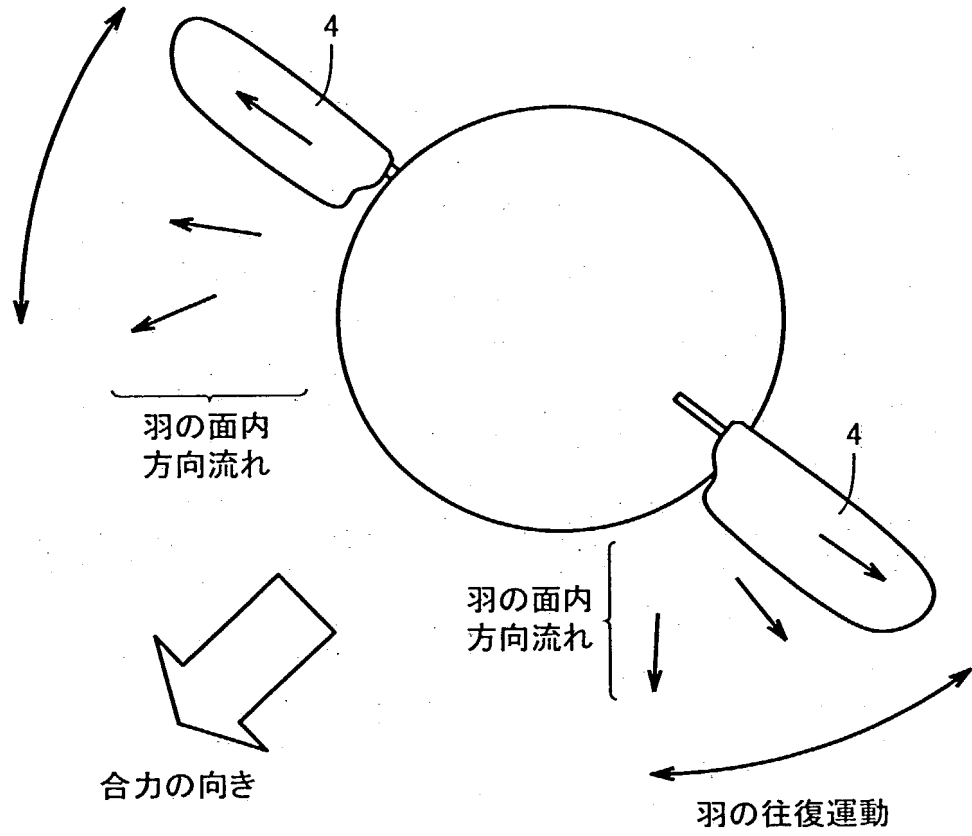


図55  
図12

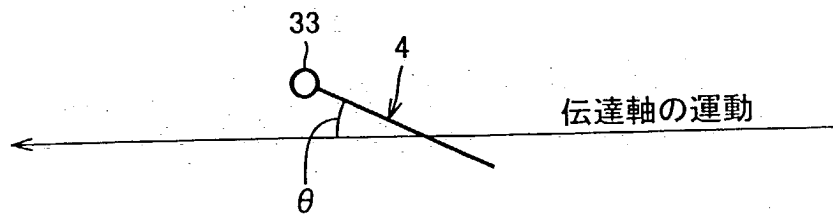


図56  
~~図13~~

打ち下ろし

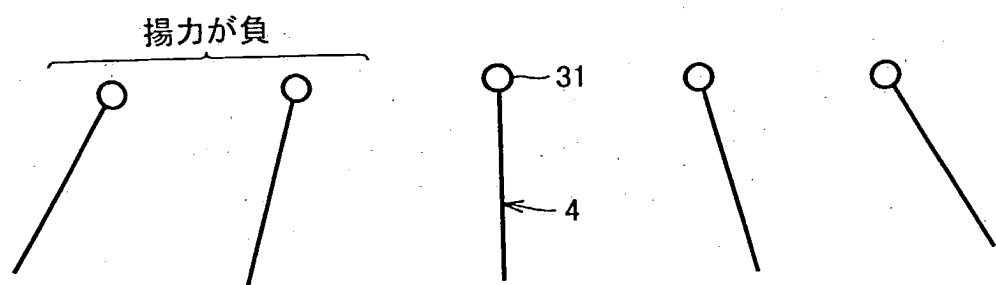
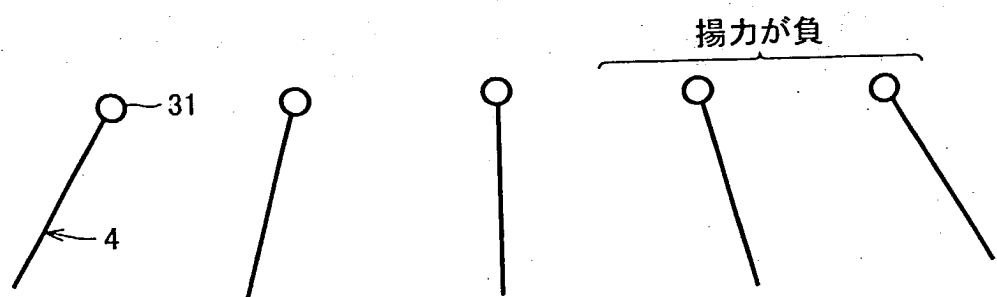
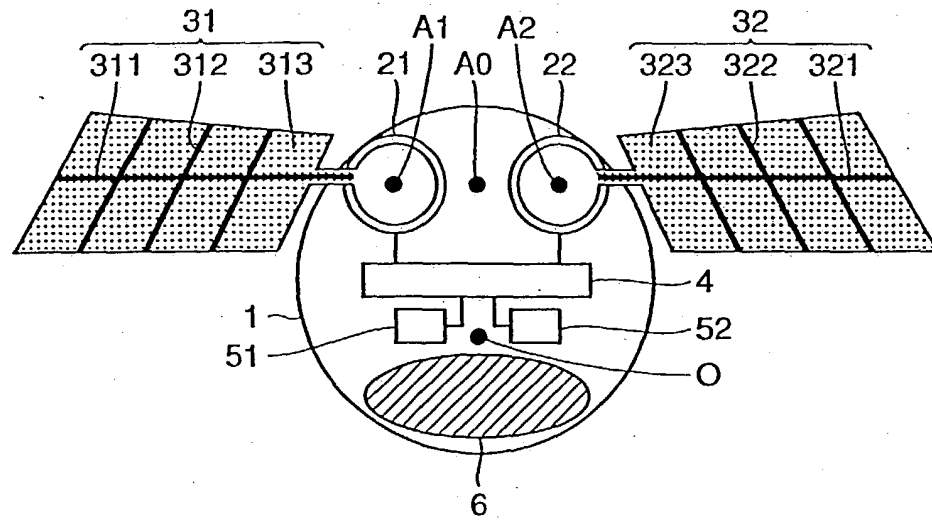


図57  
~~図14~~



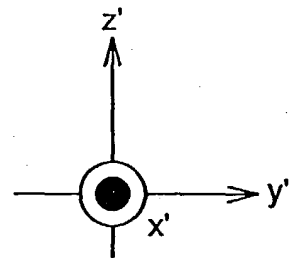
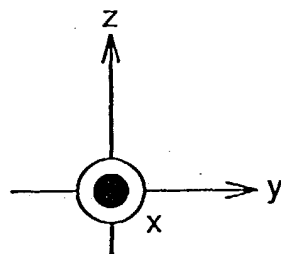
打ち上げ



58

~~67~~

~~17~~



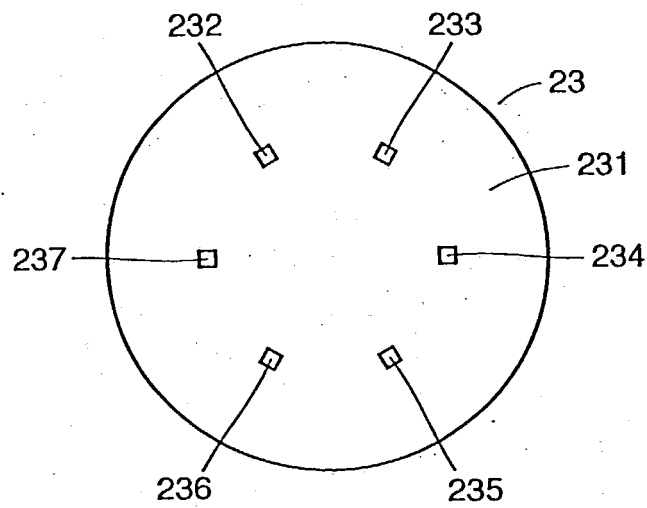


图59  
~~图68~~  
~~图18~~

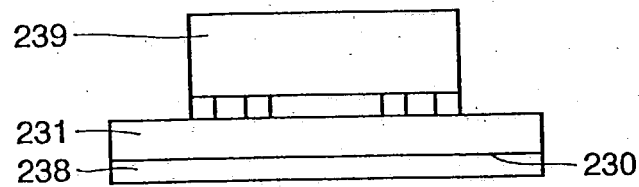


图60  
~~图69~~  
~~图19~~

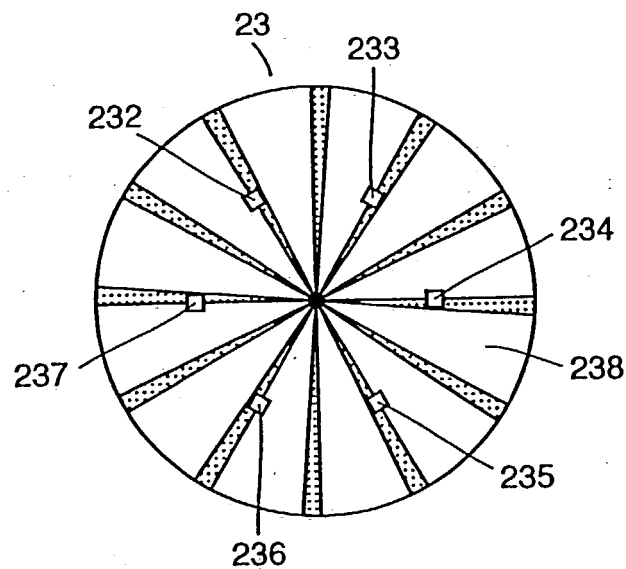


图61  
~~图70~~  
~~图20~~

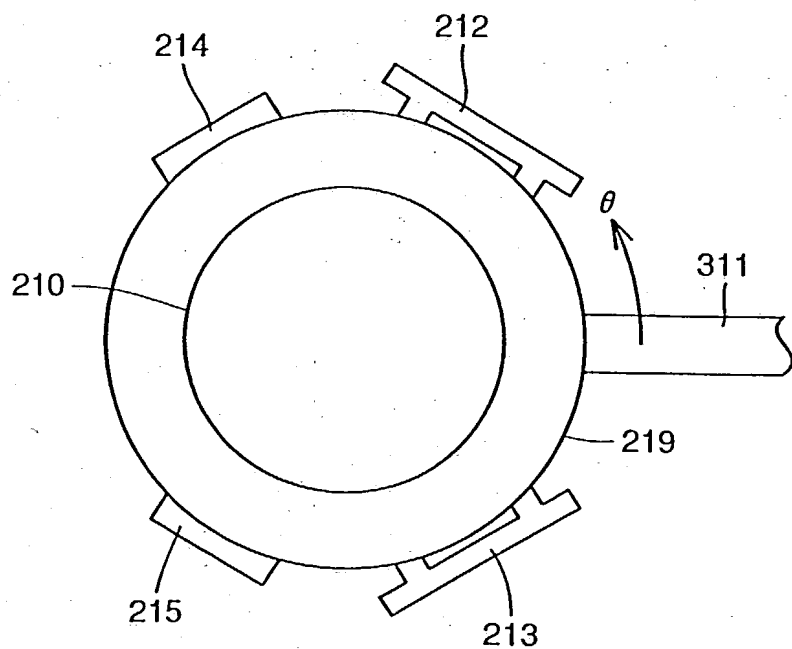


图62

~~图71~~

~~图21~~

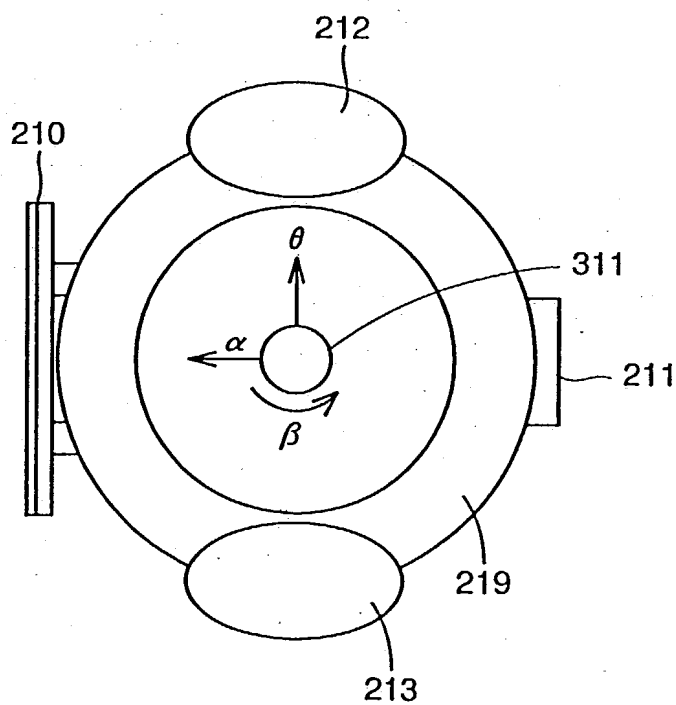


图63

~~图72~~

~~图22~~

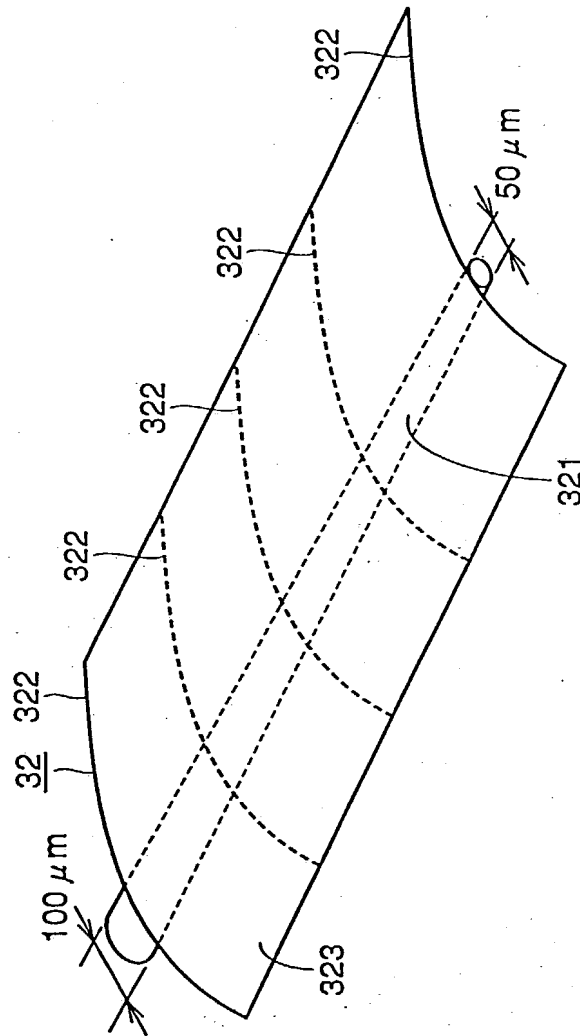


图 64  
~~图 70~~  
~~图 23~~

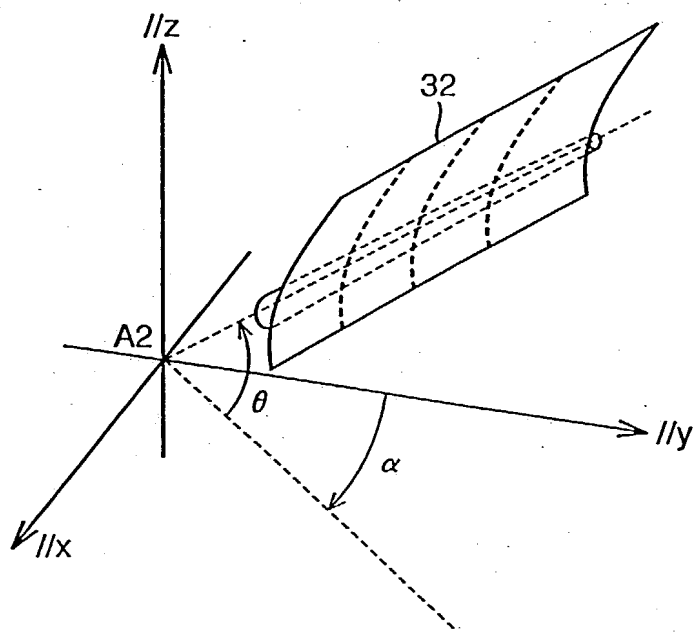


图65

~~图74~~

~~图24~~

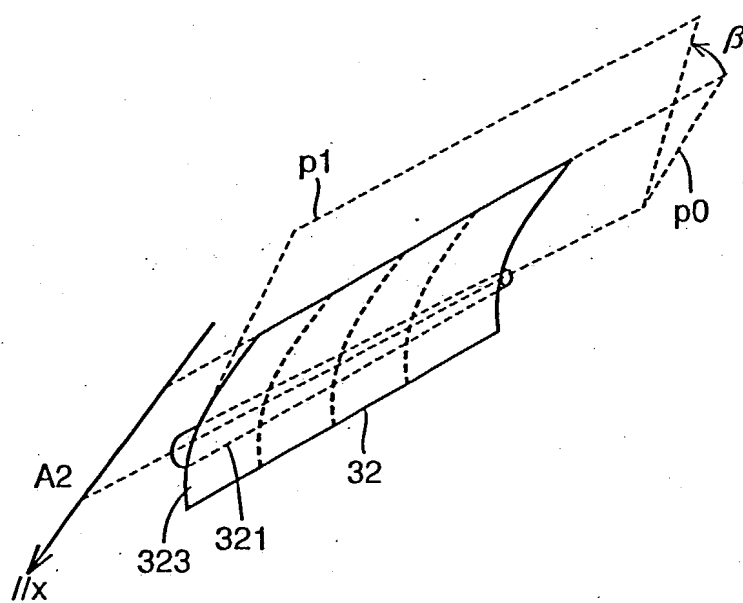


图66

~~图75~~

~~图25~~

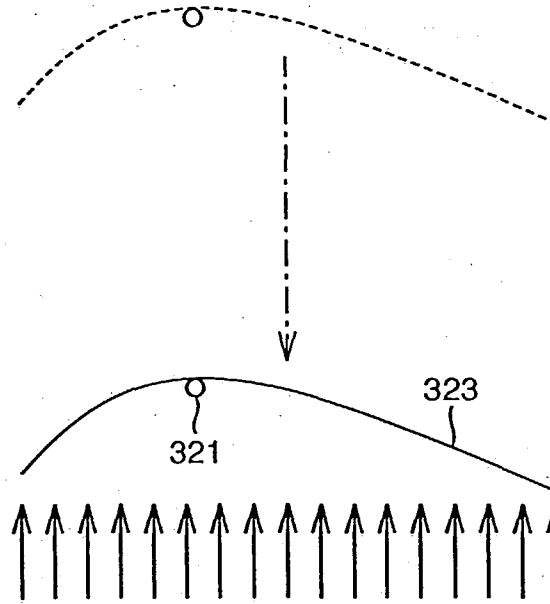


图 67

~~图 76~~

~~图 26~~

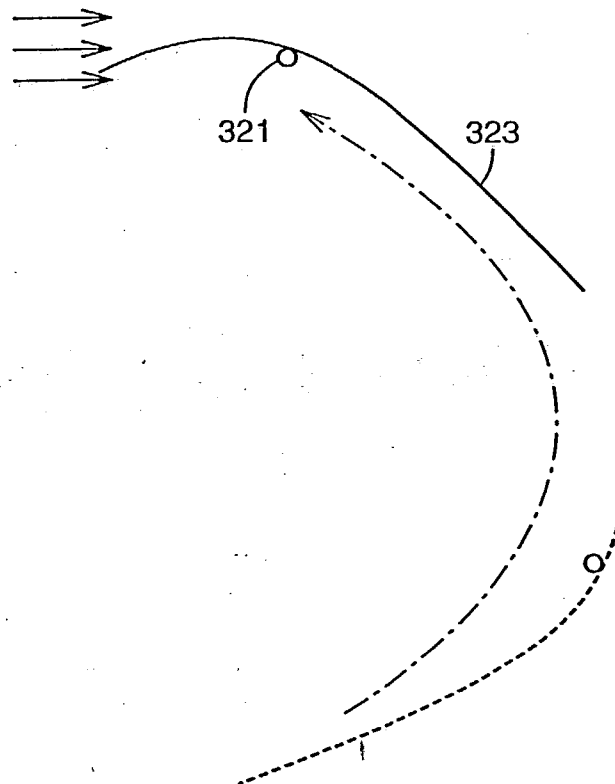


图 68

~~图 77~~

~~图 27~~



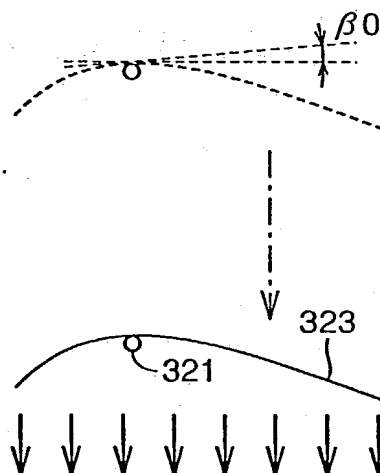


圖 69

~~图 58~~

~~图28~~

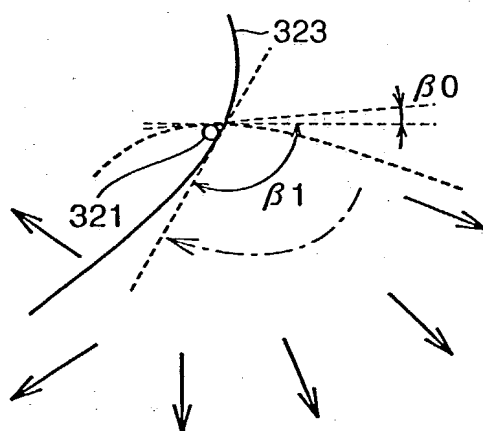


圖 70

Σ 79

—圖29—

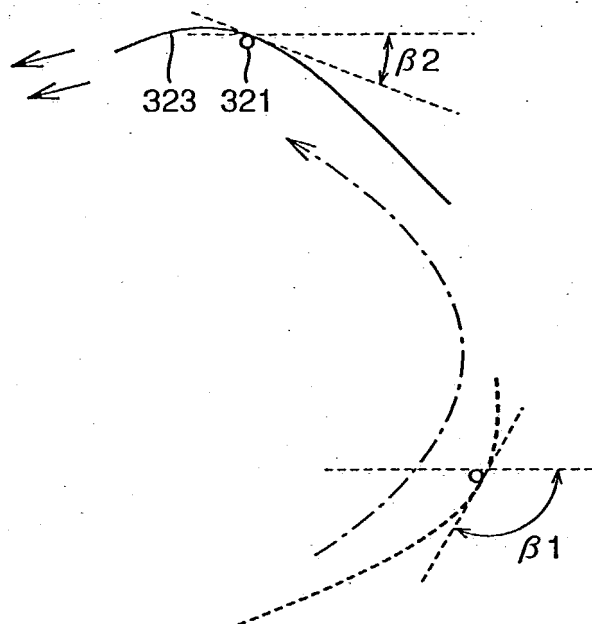


图 71

~~图 80~~

~~图 30~~

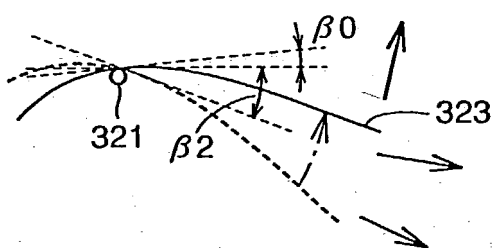


图 72

~~图 81~~

~~图 31~~



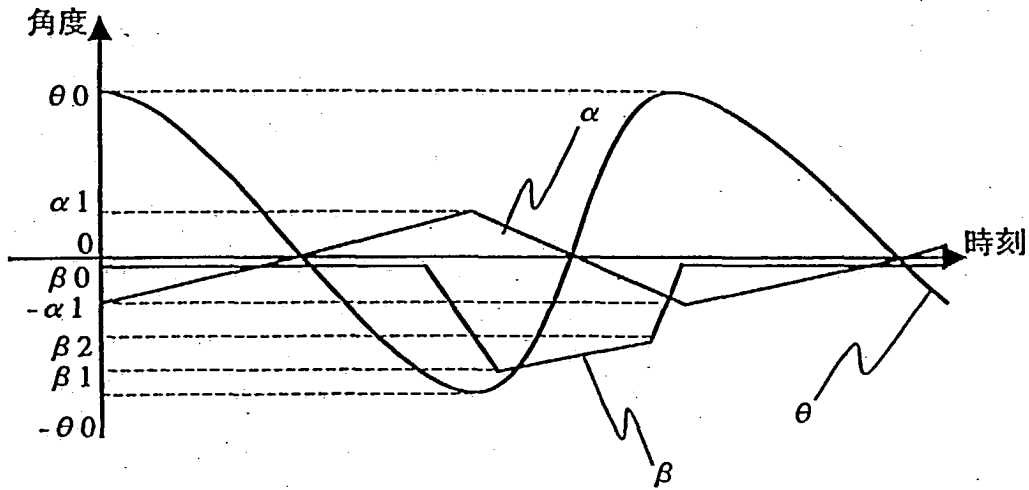


图74

~~图82~~

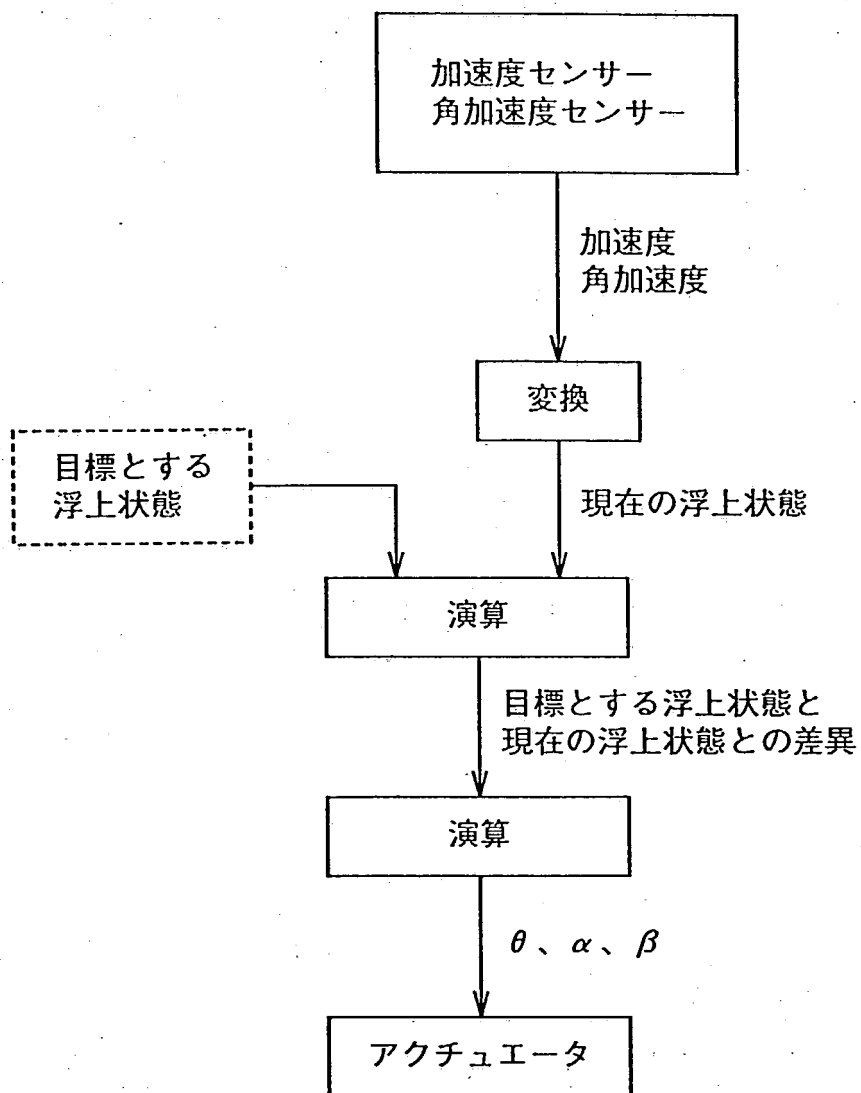
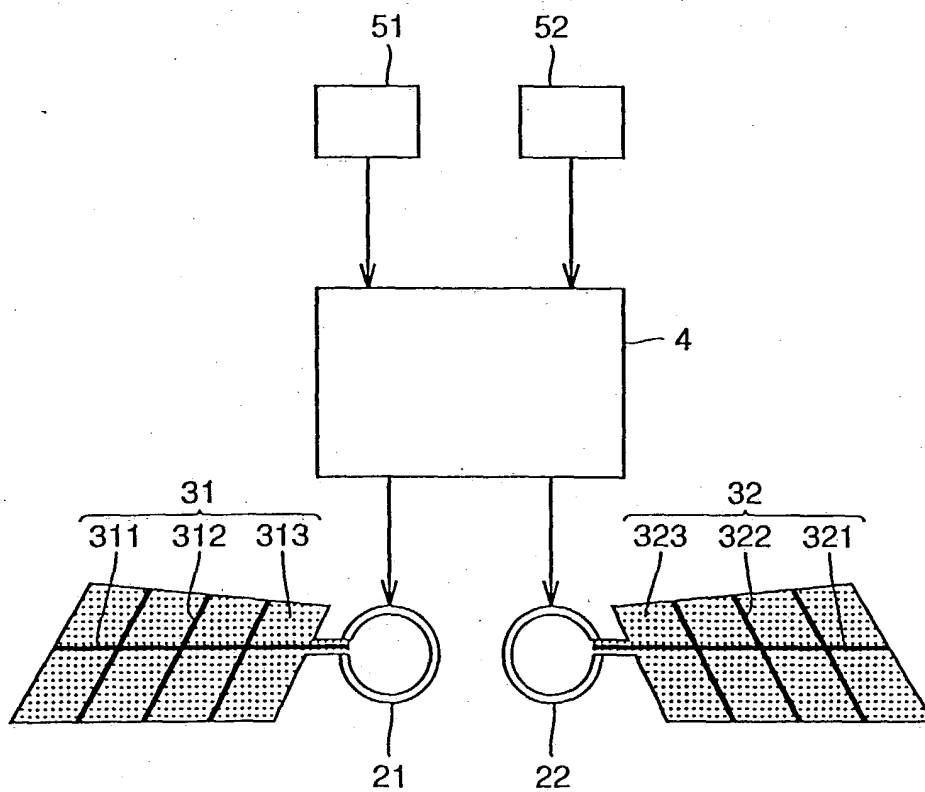
~~図84~~~~図34~~

図75



~~图85~~

~~图85~~

图76

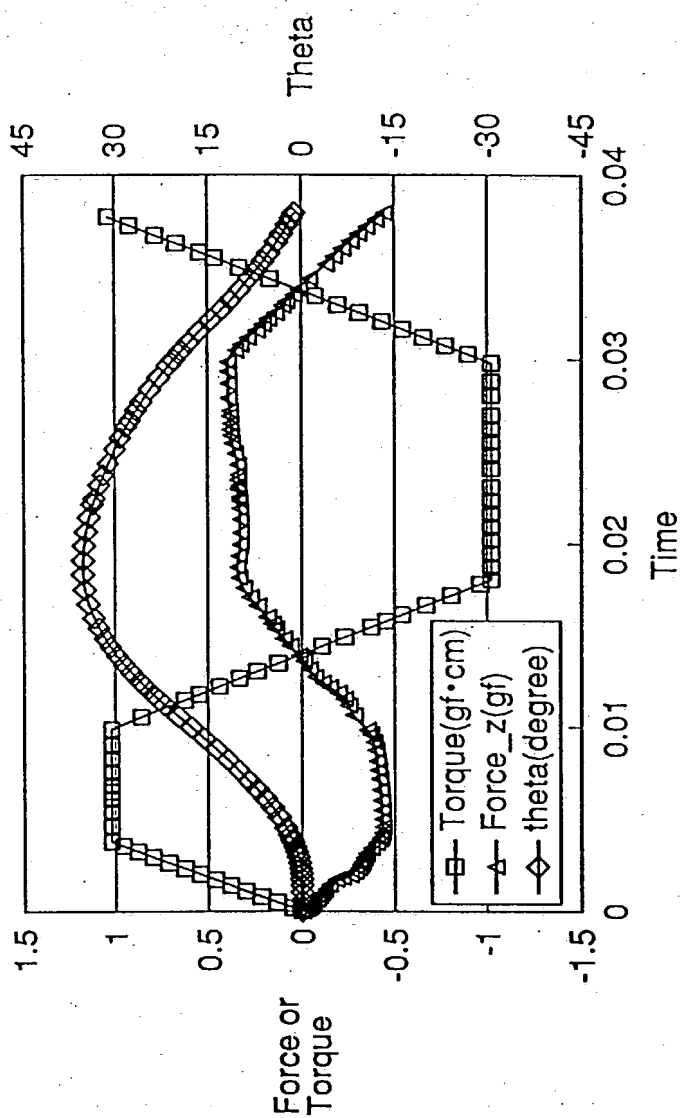


图 77

36

36

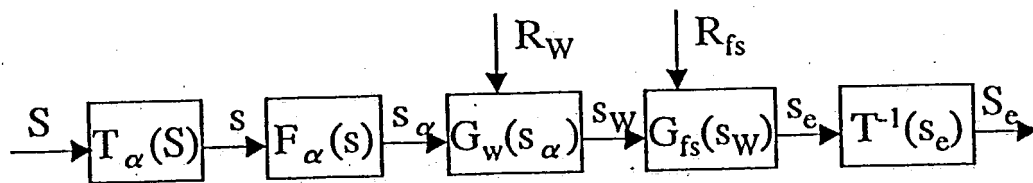


图78

~~图87~~



		$x'' +$	$x'' -$	$z'' +$	$z'' -$	$\theta_y'' +$	$\theta_y'' -$
S1	$\theta$ 振幅大			⊗			
	$\theta$ 振幅小				⊗		
	$-d\theta/dt$ 大			⊗			
	$-d\theta/dt$ 小				⊗		
	$-d\alpha/d\theta > d\alpha_{th}$	⊗					
	$-d\alpha/d\theta < d\alpha_{th}$		⊗				
	$\beta$ が打ち下ろし 方向に垂直			⊗			
	$\beta$ が打ち下ろし 方向に垂直でない				⊗		
	$\beta > 0$	⊗					
	$\beta < 0$		⊗				
S2	$-d\beta/dt$ 大	⊗		⊗		⊗	
	$-d\beta/dt$ 小		⊗		⊗		⊗
S3	$\theta$ 振幅大				⊗		
	$\theta$ 振幅小			⊗			
	$d\theta/dt$ 大				⊗		
	$d\theta/dt$ 小			⊗			
	$d\alpha/d\theta > d\alpha_{th}$		⊗				
	$d\alpha/d\theta < d\alpha_{th}$	⊗					
	$\beta$ が打ち上げ 方向に垂直				⊗		
	$\beta$ が打ち上げ 方向に垂直でない			⊗			
S4	$d\beta/dt$ 大	⊗			⊗		⊗
	$d\beta/dt$ 小		⊗	⊗		⊗	

図79  
~~図88~~

	右アクチュエータ		左アクチュエータ	
	周波数	羽ばたき	周波数	羽ばたき
上昇	35Hz	B	35Hz	B
下降	25Hz	B	25Hz	B
前進	30Hz	A	30Hz	A
停空	30Hz	B	30Hz	B
右旋回	30Hz	B	30Hz	A
左旋回	30Hz	A	30Hz	B

図80

~~図81~~